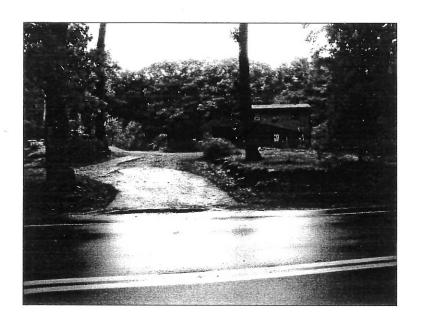
23A



Property Address:

115 Brackett Road Rye, NH 03870

Prepared For:

Kathleen Ruth McCabe 135 Brackett Road Rye, New Hampshire 03870

Prepared As Of:

Before state - August 22, 2018

Prepared By:

Vern J. Gardner, Jr., MAI, SRA Horizon Associates, P. O. Box 214 Portsmouth, New Hampshire 03802 Telephone 207-439-9699 & Fax 207-439-0327

File No

MAS.081

DEFINITION OF MARKET VALUE: The most probable price which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller, each acting prudently, knowledgeably and assuming the price is not affected by undue stimulus. Implicit in this definition is the consummation of a sale as of a specified date and the passing of title from seller to buyer under conditions whereby: (1) buyer and seller are typically motivated; (2) both parties are well informed or well advised, and each acting in what he considers his own best interest; (3) a reasonable time is allowed for exposure in the open market; (4) payment is made in terms of cash in U.S. dollars or in terms of financial arrangements comparable thereto; and (5) the price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions* granted by anyone associated with the sale.

*Adjustments to the comparables must be made for special or creative financing or sales concessions. No adjustments are necessary for those costs which are normally paid by sellers as a result of tradition or law in a market area; these costs are readily identifiable since the seller pays these costs in virtually all sales transactions. Special or creative financing adjustments can be made to the comparable property by comparisons to financing terms offered by a third party institutional lender that is not already involved in the property or transaction. Any adjustment should not be calculated on a mechanical dollar for dollar cost of the financing or concession, but the dollar amount of any adjustment should approximate the market's reaction to the financing or concessions based on the appraiser's judgment.

STATEMENT OF LIMITING CONDITIONS AND APPRAISER'S CERTIFICATION

CONTINGENT AND LIMITING CONDITIONS: The appraiser's certification that appears in the appraisal report is subject to the following conditions:

- 1. The appraiser will not be responsible for matters of a legal nature that affect either the property being appraised or the title to it. The appraiser assumes that the title is good and marketable and, therefore, will not render any opinions about the title. The property is appraised on the basis of it being under responsible ownership.
- 2. The appraiser has provided a sketch in the appraisal report to show approximate dimensions of the improvements and the sketch is included only to assist the reader of the report in visualizing the property and understanding the appraiser's determination of its size.
- 3. The appraiser has examined the available flood maps that are provided by the Federal Emergency Management Agency (or other data sources) and has noted in the appraisal report whether the subject site is located in an identified Special Flood Hazard Area. Because the appraiser is not a surveyor, he or she makes no guarantees, express or implied, regarding this determination.
- 4. The appraiser will not give testimony or appear in court because he or she made an appraisal of the property in question, unless specific arrangements to do so have been made beforehand.
- 5. The appraiser has estimated the value of the land in the cost approach at its highest and best use and the improvements at their contributory value. These separate valuations of the land and improvements must not be used in conjunction with any other appraisal and are invalid if they are so used.
- 6. The appraiser has noted in the appraisal report any adverse conditions (such as, needed repairs, depreciation, the presence of hazardous wastes, toxic substances, etc.) observed during the inspection of the subject property or that he or she became aware of during the normal research involved in performing the appraisal. Unless otherwise stated in the appraisal report, the appraiser has no knowledge of any hidden or unapparent conditions of the property or adverse environmental conditions (including the presence of hazardous wastes, toxic substances, etc.) that would make the property more or less valuable, and has assumed that there are no such conditions and makes no guarantees or warranties, express or implied, regarding the condition of the property. The appraiser will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because the appraiser is not an expert in the field of environmental hazards, the appraisal report must not be considered as an environmental assessment of the property.
- 7. The appraiser obtained the information, estimates, and opinions that were expressed in the appraisal report from sources that he or she considers to be reliable and believes them to be true and correct. The appraiser does not assume responsibility for the accuracy of such items that were furnished by other parties.
- 8. The appraiser will not disclose the contents of the appraisal report except as provided for in the Uniform Standards of Professional Appraisal Practice.
- 9. The appraiser has based his or her appraisal report and valuation conclusion for an appraisal that is subject to satisfactory completion, repairs, or alterations on the assumption that completion of the improvements will be performed in a workmanlike manner.
- 10. The appraiser must provide his or her prior written consent before the lender/client specified in the appraisal report can distribute the appraisal report (including conclusions about the property value, the appraiser's identity and professional designations, and references to any professional appraisal organizations or the firm with which the appraiser is associated) to anyone other than the borrower; the mortgagee or its successors and assigns; the mortgage insurer, consultants; professional appraisal organizations; any state or federally approved financial institution; or any department, agency, or instrumentality of the United States or any state or the District of Columbia; except that the lender/client may distribute the property description section of the report only to data collection or reporting service(s) without having to obtain the appraiser's prior written consent. The appraiser's written consent and approval must also be obtained before the appraisal can be conveyed by anyone to the public through advertising, public relations, news, sales, or other media.

MAS.0818

File No.

APPRAISER'S CERTIFICATION: The Appraiser certifies and agrees that:

1. I have researched the subject market area and have selected a minimum of three recent sales of properties most similar and proximate to the subject property for consideration in the sales comparison analysis and have made a dollar adjustment when appropriate to reflect the market reaction to those items of significant variation. If a significant item in a comparable property is superior to, or more favorable than, the subject property, I have made a negative adjustment to reduce the adjusted sales price of the comparable and, if a significant item in a comparable property is inferior to, or less favorable than the subject property, I have made a positive adjustment to increase the adjusted sales price of the comparable.

- 2. I have taken into consideration the factors that have an impact on value in my development of the estimate of market value in the appraisal report. I have not knowingly withheld any significant information from the appraisal report and I believe, to the best of my knowledge, that all statements and information in the appraisal report are true and correct.
- 3. I stated, in the appraisal report, only my own personal, unbiased, and professional analysis, opinions, and conclusions, which are subject only to the contingent and limiting conditions specified in this form.
- 4. I have no present or prospective interest in the property that is the subject of this report, and I have no present or prospective personal interest or bias with respect to the participants in the transaction. I did not base, either partially or completely, my analysis and/or the estimate of market value in the appraisal report on the race, color, religion, sex, handicap, familial status, or national origin of either the prospective owners or occupants of the subject property or of the present owners or occupants of the properties in the vicinity of the subject property.
- 5. I have no present or contemplated future interest in the subject property, and neither my current or future employment nor my compensation for performing this appraisal is contingent on the appraised value of the property.
- 6. I was not required to report a predetermined value or direction in value that favors the cause of the client or any related party, the amount of the value estimate, the attainment of a specific result, or the occurrence of a subsequent event in order to receive my compensation and/or employment for performing the appraisal. I did not base the appraisal report on a requested minimum valuation, a specific valuation, or the need to approve a specific mortgage loan.
- 7. I performed this appraisal in conformity with the Uniform Standards of Professional Appraisal Practice that were adopted and promulgated by the Appraisal Standards Board of The Appraisal Foundation and that were in place as of the effective date of this appraisal, with the exception of the departure provision of those Standards, which does not apply. I acknowledge that an estimate of a reasonable time for exposure in the open market is a condition in the definition of market value and the estimate I developed is consistent with the marketing time noted in the neighborhood section of this report, unless I have otherwise stated in the reconciliation section.
- 8. I have personally inspected the interior and exterior areas of the subject property and the exterior of all properties listed as comparables in the appraisal report. I further certify that I have noted any apparent or known adverse conditions in the subject improvements, on the subject site, or on any site within the immediate vicinity of the subject property of which I am aware and have made adjustments for these adverse conditions in my analysis of the property value to the extent that I had market evidence to support them. I have also commented about the effect of the adverse conditions on the marketability of the subject property.
- 9. I personally prepared all conclusions and opinions about the real estate that were set forth in the appraisal report. If I relied on significant professional assistance from any individual or individuals in the performance of the appraisal or the preparation of the appraisal report, I have named such individual(s) and disclosed the specific tasks performed by them in the reconciliation section of this appraisal report. I certify that any individual so named is qualified to perform the tasks. I have not authorized anyone to make a change to any item in the report; therefore, if an unauthorized change is made to the appraisal report, I will take no responsibility for it.
- 10. I have provided no services, as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment.
- 11. There is an Extraordinary Assumption regards interior which was not inspected. If it differs from that expressed the conclusion may change however, the difference between the Before & After state will not change due to the application of the same assumptions.

SUPERVISORY APPRAISER'S CERTIFICATION: If a supervisory appraiser signed the appraisal report, he or she certifies and agrees that: I directly supervise the appraiser who prepared the appraisal report, have reviewed the appraisal report, agree with the statements and conclusions of the appraiser, agree to be bound by the appraiser's certifications numbered 4 through 7 above, and am taking full responsibility for the appraisal and the appraisal report.

ſ	d, Rye, NH 03870
APPRAISER:	SUPERVISORY APPRAISER (only if required):
Signature:	Signature:
Name: Vern J. Gardner, Jr., MAI, SRA	Name:
Date Signed: August 27 2018	Date Signed:
State Certification #: NHCG 116	State Certification #:
or State License #:	or State License #:
State: New Hampshire	State:
Expiration Date of Certification or License: 01/31/19	Expiration Date of Certification or License: Did Did Not Inspect Property

Pr	perty Description	i	UNIFO			ORT @ Extraction			RT	Fil	e No.	MAS.0818
	Property Address	115 Brackett Ro	ad			City	Rye		State	NH Z	ip Code 038	70
	Legal Description		e 1696							nty Rockingh		
	Assessor's Parcel N			0	O M	Tax Year		R.E. Taxes \$		CONTRACTOR OF THE PERSON NAMED IN COLUMN 1	Assessments	
Ξ	Borrower Not app	(5-2)	as Cionala [urray L. Maso	Printered .	П 0	Occupant	X Owner		
	Property rights app Neighborhood or P		ee Simple	Leasehold		roject Type	PUD Pub		lominium (HUD/	500	HOA \$ Non	e /Mo.
S	Sales Price \$		ate of Sale	erry brook w			Map Referen		sions to be paid		is Tract	
	Lender/Client Kat								npshire 03870		W	
	Appraiser Vern J								Portsmouth, I		nire 03802	
=	Location	Urban	X Suburb	oan 🗌 Rui	ral Pr	redominant ccupancy		e family ho		nt land use	% Land us	se change
	Built up	Over 75%	X 25-759	% 🔲 Un	der 25%		PRIC \$(000		(yrs) One fa		85 X Not	likely Likely
	Growth rate	Rapid	Stable			Owner	95 350		25 2-4 fai		Lance .	rocess
		Increasing Shortage	Stable		clining \(\sum_{\text{supply}} \)		5 850) High Predominan	250 Multi- t Comm		To:	
		∑ Shortage X Under 3 mos.	In bala	-	er 6 mos.	✓ Vacant (0-59 Vacant (Over)				cant)	15	
	Note: Race and	esenti.			1		0.01		00 (100		10	
	Neighborhood bour							iles north o	of the village w	vith its Town	Hall & Safe	ty Complex.
8	Rye has no ecor	omic base but ir	nstead relies	on Portsmo	uth with its	local & region	al shopping	& employi	ment. The he	art of Portsn	nouth is Mar	ket Square
8	Factors that affect t	he marketability of	the properties	in the neighbo	orhood (proxim	nity to employm	ent and amer	nities, emplo	yment stability, a	appeal to mark	et, etc.):	
	which is located											
	single-family dw			W. (2000)	251		701	***************************************				
	Those in the vici light traffic.	Tilly of the subje	ct snow sigi	is or deferre	u maintenai	ice, brackett	Road is a co	Jillector De	etween the bea	acii & royes	corner with	moderate to
	ngric trainer											
	Market conditions i	n the subject neigh	borhood (incl	uding support	for the above	conclusions rela	ated to the tre	nd of proper	ty values, deman	nd/supply, and	marketing tim	ie
	such as data on											
	The region is su	bject to moderat	e demand ir	n the face of	limited supp	ply which has	placed pres	ssure to inc	rease prices &	rents while	reducing v	acancy &
	marketing time.											
è	with terms of 10	% down at 4-59	% for 30 yea	ers with no p	oints. Accord	ding to MLS th	ne number	of days on	market is 30 -	120 which i	s equal to the	ne exposure
	time.											
	Project Informat	ion for PIIDs (annlicable) -	_ Is the develo	ner/huilder in	control of the H	Iome Owners	' Association	(HOA)2	Yes N	0	
3	Approximate total n										Ü	
	Describe common								, , , ,			•
	Dimensions Front	tage 351 (Tax m	ap)						Topography	Rolling		
	Site area 2.40 ac					Corner Lo	t Yes	X No	Size	Typical		
	Specific zoning cla	ssification and des	cription Sing	g;le residenc	e 66,000 sf					Irregular		
	Zoning compliance				Grandfathered		legal	No zoning		Adequate so		s to west
	Highest & best use	as improved	Present	use	Other use (expl	Iain) SED					ia -	
	Iltilities Pu	hlic Ott		Off-cite Im	- 1		Puhl	ic Drivata		Neighborhoo Modest		
w			ner		provements			ic Private	Landscaping	Modest		
SITE	Electricity Gas	<u> </u>		Off-site Im Street Curb/Gutter	- 1	Туре	Publ			Modest ce Asph	alt & gravel	
SITE	Electricity Gas Water	<u> </u>		Street Curb/Gutter Sidewalk	Asphalt None/typic None/typic	Type cal			Landscaping Driveway Surfa	Modest ce Asph nents See	alt & gravel deed	Yes X No
SITE	Electricity Gas Water Sanitary Sewer	<u> </u>		Street Curb/Gutter Sidewalk Street Lights	Asphalt None/typic None/typic Sodium va	Type cal cal apor			Landscaping Driveway Surfa Apparent Easen FEMA Special I FEMA Zone	Modest ce Asph nents See	alt & gravel deed	
SITE	Electricity Gas Water Sanitary Sewer Storm Sewer	<u> </u>	ner	Street Curb/Gutter Sidewalk Street Lights Alley	Asphalt None/typic None/typic Sodium va None/typic	Type cal cal apor cal			Landscaping Driveway Surfa Apparent Easen FEMA Special I FEMA Zone FEMA Map No.	Modest ce Asph nents See Flood Hazard A	alt & gravel deed Area Map Date	Yes 🔀 No
SITE	Electricity Gas Water Sanitary Sewer Storm Sewer Comments (appare	₹ ₹ ↓ Int adverse easeme	ner	Street Curb/Gutter Sidewalk Street Lights Alley ments, special	Asphalt None/typic Sodium va None/typic assessments,	Type cal cal apor cal stide areas, ille	gal or legal n	onconformin	Landscaping Driveway Surfact Apparent Easer FEMA Special I FEMA Zone FEMA Map No. g zoning use, etc	Modest ce Asph nents See Flood Hazard A	aalt & gravel deed Area Map Date and Best U	Yes X No
SITE	Electricity Gas Water Sanitary Sewer Storm Sewer Comments (appare improved is SFR	T adverse easement which is suppor	nts, encroachr	Street Curb/Gutter Sidewalk Street Lights Alley ments, special existing dime	Asphalt None/typic Sodium va None/typic Sodium va None/typic assessments,	Type cal apor cal slide areas, ille	gal or legal n	onconformin	Landscaping Driveway Surfact Apparent Easer FEMA Special I FEMA Zone FEMA Map No. g zoning use, etc f moderate de	Modest ce Asph ments See Flood Hazard A c.): Highest mand. The s	aalt & gravel deed Area Map Date and Best U	Yes X No
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COMMENTS DESCRIPTION OF IMPROVEMENTS SITE	Electricity Gas Water Sanitary Sewer Storm Sewer Comments (appare improved is SFR Road & appears GENERAL DESCRIF No. of Units No. of Stories Type (Det./Att.) Design (Style) Existing/Proposed Age (Yrs.) Effective Age (Yrs.) ROOMS Foye Basement Level 1 Level 2 Finished area at INTERIOR Floors Walls DTrim/Finish Bath Floor Bath Wainscot Doors Condition: less t Additional features remodeled into a Condition of the im maintenance, pt in the kitchen &	nt adverse easemei which is suppor to be on a rock TION 1.75 Detached Cottage Existing 88 yrs 25 r Living 1 nove grade conta Materials/Conditarpeting rywall lood noleum rywall anel han average (special energy eff a Bungalow. Abc provements, depre rysical depreciati bathroom of \$2	nits, encroachr ted by pre-e outcrop/ledd EXTERIOR DI Foundation Exterior Wall Roof Surface Gutters & Dw Window Type Storm/Scree Manufacture Dining 1 Ins: ion HEAT Type Fuel Cond COOL Centr Other Cond icient items, e ion (effective 5,000.	Street Curb/Gutter Sidewalk Street Lights Alley ments, special existing dime ge. The inte ESCRIPTION Solution Solution Solution Cor d House No Kitchen 6 Room ING FHW- Oil Ition Average LING al ition al ition Accord cool contribu cal, functional, e age 15 & a	Asphalt None/typic Sodium va N	Type cal cal cal cal cal cal cal cal cal ca	gal or legal in ding uses in rerefore the line in the	onconformin in the face of descriptors otted bted Bedrooms 1 A F P P ding original arry Brook vonstruction, rurred & the	Landscaping Driveway Surfar Apparent Easer FEMA Special If FEMA Zone FEMA Map No. go zoning use, etc f moderate de are assumed. BASEMENT Area Sq. Ft. % Finished Ceiling Walls Floor Outside Entry # Baths 1F Bath(s): MENITIES irreplace(s) # atio deck forch ence cool ally served as watershed. emodeling/addit irre is thought is	Modest ce Asph nents See Flood Hazard A c.): Highest emand. The s 1,758 S 1,758 S	alt & gravel deed Area	se as vacant & st to Brackett ON Area Sq. Ft. 1,357 401 Gross Living Area GE: # of cars Paved/gravel have been bvious deferred
COMMENTS DESCRIPTION OF IMPROVEMENTS SITE	Electricity Gas Water Sanitary Sewer Storm Sewer Comments (appare Improved is SFR Road & appears GeNERAL DESCRIF No. of Units No. of Stories Type (Det./Att.) Design (Style) Existing/Proposed Age (Yrs.) Effective Age (Yrs.) Effective Age (Yrs.) Effective Age (Yrs.) Foye Basement Level 1 Level 2 Finished area at INTERIOR Floors Walls Dors Edit Miniscol Doors Picondition: less t Additional features remodeled into a Condition of the im maintenance, pt	nt adverse easemer which is support to be on a rock TION 1.75 Detached Cottage Existing 88 yrs 25 r Living 1 nove grade contar Materials/Condit arpeting rywall anel han average (special energy eff a Bungalow. Aborprovements, depreysical depreciation bathroom of \$2 ntal conditions (su	nts, encroachr ted by pre-e outcrop/leds EXTERIOR DI Foundation Exterior Wall Roof Surface Gutters & Dv Window Typr Storm/Scree Manufacturer Dining 1 Inst: Inst	Street Curb/Gutter Sidewalk Street Lights Alley ments, special existing dime gge. The inte ESCRIPTION S Shi e DH ord House No Kitchen 6 Room ING FHW- Oil Ition Average Ition age 15 & a limited to, haz limited to, haz	Asphalt None/typic None/typic Sodium va Sodium va None/typic Sodium va Sodium va None/typic Sodium va None/typic Sodium va Sodi	Type cal cal cal cal spor cal slide areas, ille plus surround inspected the FOUNDATIC Slab Crawl Spac Basement Sump Pum Dampness Settlement Infestation Family Rm. 3 Bedroor CHEN EQUIP. rigerator gge/Oven cosal washer /Hood rowave sher/Dryer ssessor's reco to The subject repairs needed life 50) after	gal or legal n ding uses in erefore the None None None n Minor None No Rec. Rm. ATTIC None Stairs Floor Heated Finished rds the buil is in the Be of quality of co	onconformin in the face of descriptors otted bted Bedrooms 1 A F P P ding original arry Brook vonstruction, rurred & the	Landscaping Driveway Surfar Apparent Easer FEMA Special If FEMA Zone FEMA Map No. go zoning use, etc f moderate de are assumed. BASEMENT Area Sq. Ft. % Finished Ceiling Walls Floor Outside Entry # Baths 1F Bath(s): MENITIES irreplace(s) # atio deck forch ence cool ally served as watershed. emodeling/addit irre is thought is	Modest ce Asph nents See Flood Hazard A c.): Highest emand. The s 1,758 S 1,758 S	alt & gravel deed Area	se as vacant & st to Brackett ON Area Sq. Ft. 1,357 401 Gross Living Area GE: # of cars Paved/gravel have been bvious deferred

ESTIMATED CITE VAL	Oldii Ol	RM RESIDENT	IAL APPRA	AIS/	AL REPOR	T	File No.	MAS.0818
FOLIMATED SITE AMP	UE	: = \$ IMPROVEMENTS:	\$ \$325				s, source of cost estimate	site value souare
ESTIMATED REPROD	UCTION COST-NEW OF	IMPROVEMENTS:	0.00000		foot calculation and	for HUD VA and	FmHA, the estimated rem	, otto valao, square Izinina economic
	<u>.,758</u> Sq. Ft. @\$	72.35 = \$	127191				oach is based on Mars	9
	Sq. Ft. @ \$	=					which is supplemented	
2		=			The state of the s	alue includes so		With local
	Sq. Ft. @ \$					nance		
Total Estimated Cost-Ne	W	= \$	127191			ation (15/50)		
E Less Physi	Jai Functional E	0		177	Functional obsol			
Depreciation 49,6		0 = \$	74604	_		cence		
		= §		-	51 Brackett Roa			
		= 3					340,000 - 02/27/18	
INDICATED VALUE BY	COST ADDDOACH	= 3	381	5087	Lot I Old Ferry	KUAU07 AC - 3	3340,000 - 02/2//18	
ITEM	SUBJECT	COMPARABI		1007	COSSDADADAD	F NO. O	COMPANAN	T 110 0
115 Brackett		119 Wentworth Road	CONTRACTOR	222 (COMPARABI Garland Road	LE NU. Z	COMPARABL 299 Wallis Road	E NU. 3
Address Rye, NH 038		Rye, NH 03870			NH 03870		Rye, NH 03870	
Proximity to Subject		2 miles (est)			es (est)		2 miles	
Sales Price	\$	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	50,000	2 11111		50,000	Control of the Contro	20,000
Price/Gross Liv. Area			50,000	\$ 27	5.16	The state of the s	\$ 253.16	The same of the sa
Data and/or	Public records	MLS 4682170			4662843		7	
Verification Sources	rubiic records	Bonnie Dridi 603-944-	9105*	1000000		2.0400*	MLS4632129	
VALUE ADJUSTMENTS	DESCRIPTION	DESCRIPTION			Youngs 603-50		Deb Lynch 603-396-5	
Sales or Financing	DESCRIPTION	None disclosed	+ (-) Adjustment	-	DESCRIPTION	+ (-) Adjustment	DESCRIPTION	+(-) Adjustmen
The state of the s		Control of the Contro	1		disclosed		None disclosed	
Concessions	-	DOM 59		DOM			DOM 0	
Date of Sale/Time		05/31/18	-4,400				07/27/17	-16,00
Location	Suburban	Suburban		Subu			Suburban	
Leasehold/Fee Simple	Fee Simple	Fee simple			imple		Fee simple	
Site	2.40 ac (Tax Map)	.18 (.14) ac	22,200	-			1.25 ac	11,50
View	Neighborhood	Neighborhood			nborhood-		Neighborhood	
Design and Appeal	Cottage	Cottage		Rancl			Cape	
Quality of Construction	Fair	Less than average	0	Less t	than average	0	Less than average	
Age	88 (15) yrs	63 (10) yrs	-7,500	53 (2	5) yrs	15,000	68 (25) yrs	12,00
Condition	Less than average	Less than average	see above	Less t	than average	see above	Less than average	see abov
Above Grade	Total Bdrms Baths	Total Bdrms Baths		Total	Bdrms Baths		Total Bdrms Baths	
Room Count	6 3 1	6 2 1	0	6	3 1F1H	-1,000		
Gross Living Area	1758 Sq. Ft.	1,056 Sq. Ft.	17,550		1,272 Sq. Ft.	12,150		12,35
Basement & Finished								12/00
Rooms Below Grade	None	None	0	Full/0	1%	-3 500	Full/0%	-3,50
	Fair	Average	-25,000		, , , ,		Fair	3,30
Functional Utility Heating/Cooling	FHW/None	FWA/None		FWA/	None		FWA/None	
	Limited	Limited		Limite	***************************************		Limited	
Garage/Carport	None	None		-				
Porch, Patio, Deck,	None	None		1 car	deck		1 car det	-3,000
Fireplace(s), etc.	Fireplace		_				Open porch	-50
Fence, Pool, etc.	None	Fireplace		None	The same that the same to be a	1,500	None	1,500
relice, root, etc.	INOTIE	Shed	INC	Shed		NC		
Net. Adj. (total)		X+ 1- s	2.050	1571	+			
Adjusted Sales Price		G: 21.90%	2,850			25,450	Committee of the Salvanian St. Salvanian St.	14,35
				G:			G: 18.86%	
of Comparable					7.27% \$	375,450	The second secon	334,35
comments on Sales Con	iparison (including the su	bject property's compatibil	ity to the neighborh	100d, e	etc.): Sale 1 is tr	ne most recent s	imilar sale in Rye how	ever, the septic
systems & universal and	ire shared. Sale 2 us t	used for its location, da	te & similar cond	lition.	Sales 3 is used	for its date, loca	tion & similar condition	n. Sale 3 is
used for its site locat	on in Rye & condition	whereby it was demoli	sned & replaced.	Sale	4 is almost a va	acant land sale in	n that the building was	s in fair
condition nowever, tr	ie structure was used	as a platform for recon	struction. In the	"Befo	ore state" the va	ue range is betw	veen \$248,450 & \$375	5,450. Sale 4 is
given the least weigh	t while Sale 1 is the m	ost recent & Sale 3 rec	quired the least a	idjusti	ments therefore	are given the gr	eatest weight	
	AUD INON							
Data Drice and Data	SUBJECT	COMPARABL		2220	COMPARABL	E NO. 2	COMPARABL	E NO. 3
Date, Price and Data		4747/1577		2338/	1/95		3529/2273	
Source for prior sales		\$300,000					\$0	
		12/20/06		05/22			12/19/00	
within year of appraisal		or listing of the subject pro	perty and analysis o	of any p	prior sales of subie	ct and comparable	s within one year of the da	ate of appraisal:
Analysis of any current a	greement of sale, option, o							1.00
Analysis of any current a	greement of sale, option, o that the property is lis	sted for sale.						
Analysis of any current a	greement of sale, option, on that the property is lis	sted for sale.						
Analysis of any current a These is no evidence	greement of sale, option, of that the property is lis SALES COMPARISON A						\$	350,000
Analysis of any current a These is no evidence	sales comparison							350,000
Analysis of any current at These is no evidence INDICATED VALUE BY INDICATED VALUE BY	SALES COMPARISON A	APPROACH(If Applicable) Estimated	Market Rent \$		/Mo. x Gr	oss Rent Multiplier	=\$	
Analysis of any current are these is no evidence INDICATED VALUE BY INDICATED VALUE BY The appraisal is made	SALES COMPARISON A INCOME APPROACH "as is" subject	APPROACH (If Applicable) Estimated to the repairs, alterations,	Market Rent \$ inspections, or con		/Mo. x Gr	oss Rent Multiplier		
Analysis of any current at These is no evidence INDICATED VALUE BY INDICATED VALUE BY The appraisal is made	SALES COMPARISON A INCOME APPROACH "as is" subject	APPROACH(If Applicable) Estimated	Market Rent \$ inspections, or con		/Mo. x Gr	oss Rent Multiplier	=\$	
Analysis of any current at These is no evidence INDICATED VALUE BY INDICATED VALUE BY The appraisal is made Conditions of Appraisal:	SALES COMPARISON INCOME APPROACH "as is" subject This is a report in wh	APPROACH (If Applicable) Estimated to the repairs, alterations, ich there are no unusu:	Market Rent \$ inspections, or con al conditions.	ditions	/Mo. x Gr	oss Rent Multiplier subject to comp	= \$ etion per plans and speci	fications.
Analysis of any current and These is no evidence INDICATED VALUE BY INDICATED VALUE BY The appraisal is made Conditions of Appraisal:	SALES COMPARISON INCOME APPROACH "as is" subject This is a report in wh e Sales Comparison A	APPROACH (If Applicable) Estimated to the repairs, alterations, ich there are no unusual opproach is typically the	Market Rent \$	ditions	/Mo. x Gr	oss Rent Multiplier subject to comp e-family dwelling	= \$etion per plans and speci	fications.
Analysis of any current and These is no evidence INDICATED VALUE BY INDICATED VALUE BY The appraisal is made Conditions of Appraisal: Final Reconciliation: Thused in the absence of the second the absence of the second t	SALES COMPARISON INCOME APPROACH "as is" subject This is a report in wh e Sales Comparison A of significant depreciat	APPROACH	Market Rent \$ inspections, or con al conditions. most logical ave tion alone does n	ditions nue to	/Mo. x Gross listed below ovalue for single	oss Rent Multiplier subject to comp e-family dwelling	= \$etion per plans and speci	fications.
Analysis of any current ar These is no evidence INDICATED VALUE BY INDICATED VALUE BY The appraisal is made Conditions of Appraisal: Final Reconciliation: Thused in the absence of application of the Inc.	SALES COMPARISON INCOME APPROACH "as is" subject This is a report in wh e Sales Comparison Ap of significant depreciat ome Approach however	APPROACH (If Applicable) Estimated to the repairs, alterations, ich there are no unusuapproach is typically the ion (although depreciater it is usually not appliance.	Market Rent \$ inspections, or con al conditions. most logical ave tion alone does n ed to a single-far	ditions nue to	/Mo. x Gross listed below ovalue for single onder it unreliable esidence.	oss Rent Multiplier subject to comp e-family dwelling the may b	= \$_ elion per plans and speci s while the Cost Appro e market conditions th	fications.
Analysis of any current ar These is no evidence INDICATED VALUE BY INDICATED VALUE BY The appraisal is made Conditions of Appraisal: Final Reconciliation: Thused in the absence of application of the Inc. The purpose of this appraisal is appraisal.	SALES COMPARISON INCOME APPROACH "as is" subject This is a report in wh e Sales Comparison Ap of significant depreciat ome Approach however isal is to estimate the man	APPROACH (If Applicable) Estimated to the repairs, alterations, ich there are no unusu- proach is typically the ion (although depreciat er it is usually not appli ket value of the real proper	Market Rent \$ inspections, or con al conditions. most logical ave- tion alone does n ed to a single-far rty that is the subjet	enue to	/Mo. x Groots listed below ovalue for single ovalue for single onder it unreliable esidence.	oss Rent Multiplier subject to comp e-family dwelling the above condition	= \$_ etion per plans and speci s while the Cost Approx e market conditions the ns and the certification.	fications. pach is best lat warrant the
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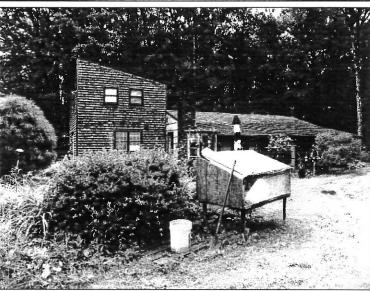
115 Brackett I	SUBJECT	COMPARABI		COMPARABI		File No. COMPARABL	ENO 6
113 Diackett		96 Pioneer Road	LE NO. 4	GUWPARADI	LE NU. 3	COMPARABL	E NU. 0
Add B - NII 0202							
Address Rye, NH 0387		Rye, NH					
Proximity to Subject		1 mile (est)					
Sales Price	S		00,000	\$		\$	
Price/Gross Liv. Area	\$ \(\)	\$ 178.57		\$ \(\times \)		\$ Ø	
Data and/or	Public records	MLS 4666260					
Verification Sources		Mary Beth Hixon 603-	-548-5380*				
VALUE ADJUSTMENTS	DESCRIPTION	DESCRIPTION	+(-) Adjustment	DESCRIPTION	+ (-) Adjustment	DESCRIPTION	+(-) Adjustm
Sales or Financing		None disclosed	0		(7.55)		. (/)
Concessions		DOM 70	0	l .			
Date of Sale/Time	Cultural	10/31/17	-8,500				
Location	Suburban	Suburban	0				
Leasehold/Fee Simple	Fee Simple	Fee simple	0				
Site	2.40 ac (Tax Map)	.18 ac	22,000				
View	Neighborhood	Neighborhood	0				7.445.8865.004.00550.00
Design and Appeal	Cottage	Gambrel	\$0				
Quality of Construction	Fair	Fair	0				
Age	88 (15) yrs	88 (25) yrs	20,000				
Condition	Less than average	Less than average	see above				
			See above			T-1-1 D1 D-11	
Above Grade	Total Bdrms Baths	Total Bdrms Baths		Total Bdrms Baths		Total Bdrms Baths	
Room Count	6 3 1	5 3 1	500				
Gross Living Area	1758 Sq. Ft.	1,120 Sq. Ft.	15,950	Sq. Ft.		Sq. Ft.	
Basement & Finished							
Rooms Below Grade	None	Partial/0%	1,500				
Functional Utility	Fair	Fair	0				
			0	and the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the section is a second section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the sectio			
Heating/Cooling	FHW/None	FWA/None					
Energy Efficient Items	Limited	Limited	0				
Garage/Carport	None	2 car det	-4,000				
Porch, Patio, Deck,	None	Screen porch	-500				
Fireplace(s), etc.	Fireplace	None	1,500				
Fence, Pool, etc.	None	None					
Net. Adj. (total)		X+	48,450			+ - \$	
		THE RESERVE OF THE PARTY OF THE	40,430	9			
Adjusted Sales Price		G: 37.23%					
of Comparable		N: 24% \$	248,450	\$		\$	
		ection, verification and ct to an interior inspec				arable properties how	ever, these
Personal properties Personal property: ap Although the home w The Secondary Mortg appraisal. Under the an attempt to conforr segment within Rye. Although erratic, the	s have not been subjet pliances are frequentl as inspected this apprage Market has guide Uniform Standards the n to artificial standard market is changing ar		real estate hower constitute a Homo of Sales within on hown as Supplem he sales selected @ \$757,500 - 20	er also inspected the ever they contribute no e Inspection. The mile and within six in its six in	Planner's file for o significant value months do not a heir use frequen ject by their con	erable properties hower the proposeal tower. e. apply due to the purportly eliminates the best dition which represent	ever, these ose of the t market dat ts a market
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SUBJECT PHOTOGRAPH ADDENDUM

Borrower/Client Not applicable				
Address 115 Brackett Road			Unit No.	N/A
City Rye	County Rockingham	State NH	Zip Code	03870
Lender/Client Kathleen Ruth McCabe			15	



Front View



Rear View



Street View

SUBJECT PHOTOGRAPH ADDENDUM

Borrower/Client Not applicable				
Address 115 Brackett Road			Unit No.	N/A
City Rye	County Rockingham	State NH	Zip Code	03870
Lender/Client Kathleen Ruth McCabe			ASSA (1974 - 1,000) 1 (1900) 1 (1900) 1 (1900) 1 (1900)	



Facing north to adjoining property Note the dwelling through the trees which will be cleared



Cell Tower site



Cell tower site facing west to the Brackett Road Note car on road & dwelling to the left of car.

COMPARABLE PHOTOGRAPH ADDENDUM

Borrower/Client Not applicable				
Address 115 Brackett Road			Unit No.	N/A
City Rye	County Rockingham	State NH	Zip Code	
Lender/Client Kathleen Ruth McCabe			mip oodo	



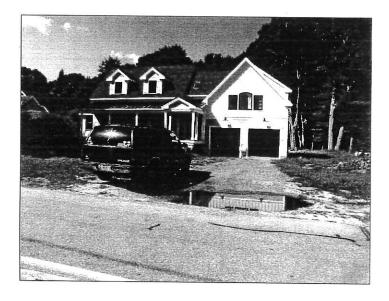
Sales Comparable 1 Front View

Address: 119 Wentworth Road Prox. to Subject: 2 miles (est) Sales Price: \$ 350,000 Gross Living Area: 1,056 Total Rooms: 6 Total Bedrooms: 2 Total Bathrooms: 1.00 Location: Suburban



Sales Comparable 2 Front View

Address: 232 Garland Road
Prox. to Subject: 2 miles (est)
Sales Price: \$ 350,000
Gross Living Area: 1,272
Total Rooms: 6
Total Bedrooms: 3
Total Bathrooms: 1.00F1H
Location: Suburban

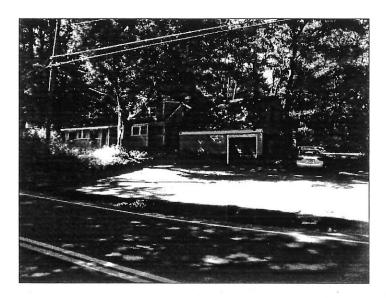


Sales Comparable 3 Front View

Address: 299 Wallis Road
Prox. to Subject: 2 miles
Sales Price: \$ 320,000
Gross Living Area: 1,264
Total Rooms: 6
Total Bedrooms: 2
Total Bathrooms: 1.00
Location: Suburban

COMPARABLE PHOTOGRAPH ADDENDUM

Borrower/Client Not applicable						
Address 115 Brackett Road					Unit No.	N/A
City Rye	County Ro	ockingham	State	NH	Zip Code	03870
Lender/Client Kathleen Ruth McCabe						



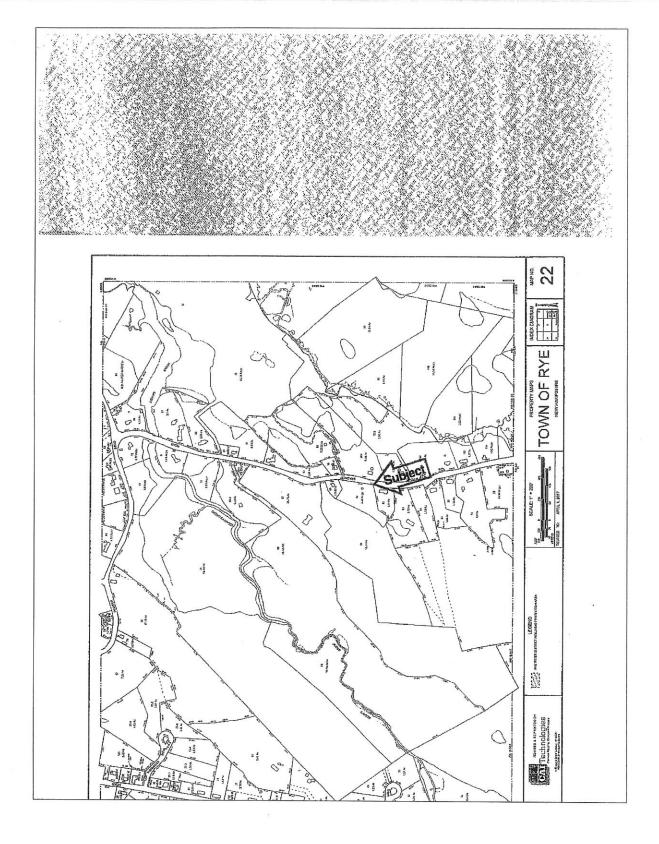
Sales Comparable 4 Front View

Address: 96 Pioneer Road
Prox. to Subject: 1 mile (est)
Sales Price: \$ 200,000
Gross Living Area: 1,120
Total Rooms: 5
Total Bedrooms: 3
Total Bathrooms: 1.00
Location: Suburban

Address: Prox. to Subject: Sales Price: \$ Gross Living Area: Total Rooms: Total Bedrooms:

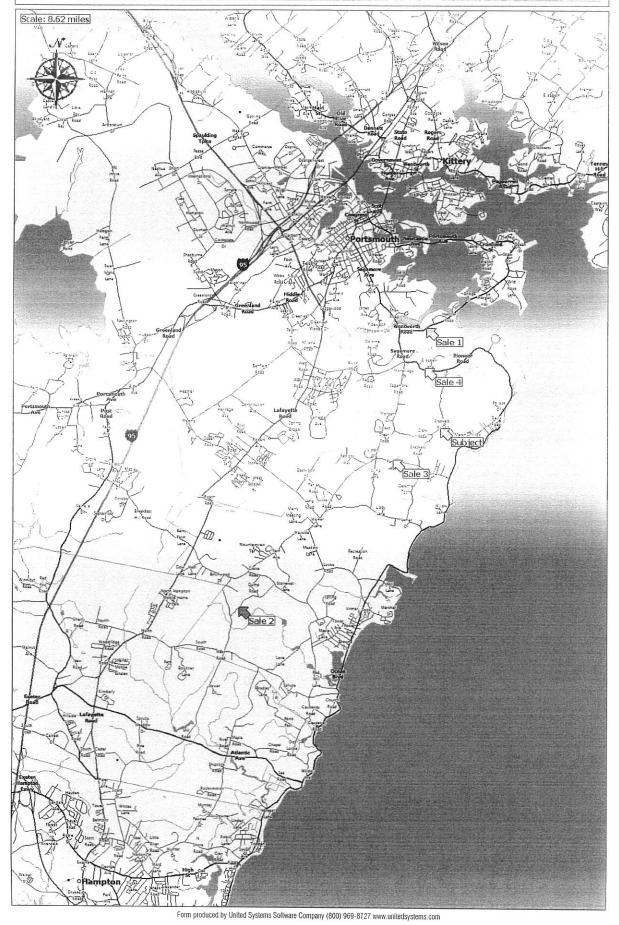
Total Bathrooms:

Address: Prox. to Subject: Sales Price: \$ Gross Living Area: Total Rooms: Total Bedrooms: Total Bathrooms:



LOCATION MAP

Borrower/Client Not applicable				
Address 115 Brackett Road			Unit No.	N/A
City Rye	County Rockingham	State NH	Zip Code	03870
Lender/Client Kathleen Ruth McCabe			-	





Property Address:

115 Brackett Road Rye, NH 03870

Prepared For:

Kathleen Ruth McCabe 135 Brackett Road Rye, New Hampshire 03870

Prepared As Of:

After state - August 22, 2018

Prepared By:

Vern J. Gardner, Jr., MAI, SRA Horizon Associates, P. O. Box 214 Portsmouth, New Hampshire 03802 Telephone 207-439-9699 & Fax 207-439-0327

MAS2.08/18

DEFINITION OF MARKET VALUE: The most probable price which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller, each acting prudently, knowledgeably and assuming the price is not affected by undue stimulus. Implicit in this definition is the consummation of a sale as of a specified date and the passing of title from seller to buyer under conditions whereby: (1) buyer and seller are typically motivated; (2) both parties are well informed or well advised, and each acting in what he considers his own best interest; (3) a reasonable time is allowed for exposure in the open market; (4) payment is made in terms of cash in U.S. dollars or in terms of financial arrangements comparable thereto; and (5) the price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions* granted by anyone associated with the sale.

*Adjustments to the comparables must be made for special or creative financing or sales concessions. No adjustments are necessary for those costs which are normally paid by sellers as a result of tradition or law in a market area; these costs are readily identifiable since the seller pays these costs in virtually all sales transactions. Special or creative financing adjustments can be made to the comparable property by comparisons to financing terms offered by a third party institutional lender that is not already involved in the property or transaction. Any adjustment should not be calculated on a mechanical dollar for dollar cost of the financing or concession, but the dollar amount of any adjustment should approximate the market's reaction to the financing or concessions based on the appraiser's judgment.

STATEMENT OF LIMITING CONDITIONS AND APPRAISER'S CERTIFICATION

CONTINGENT AND LIMITING CONDITIONS: The appraiser's certification that appears in the appraisal report is subject to the following conditions:

- 1. The appraiser will not be responsible for matters of a legal nature that affect either the property being appraised or the title to it. The appraiser assumes that the title is good and marketable and, therefore, will not render any opinions about the title. The property is appraised on the basis of it being under responsible ownership.
- 2. The appraiser has provided a sketch in the appraisal report to show approximate dimensions of the improvements and the sketch is included only to assist the reader of the report in visualizing the property and understanding the appraiser's determination of its size.
- 3. The appraiser has examined the available flood maps that are provided by the Federal Emergency Management Agency (or other data sources) and has noted in the appraisal report whether the subject site is located in an identified Special Flood Hazard Area. Because the appraiser is not a surveyor, he or she makes no guarantees, express or implied, regarding this determination.
- 4. The appraiser will not give testimony or appear in court because he or she made an appraisal of the property in question, unless specific arrangements to do so have been made beforehand.
- 5. The appraiser has estimated the value of the land in the cost approach at its highest and best use and the improvements at their contributory value. These separate valuations of the land and improvements must not be used in conjunction with any other appraisal and are invalid if they are so used.
- 6. The appraiser has noted in the appraisal report any adverse conditions (such as, needed repairs, depreciation, the presence of hazardous wastes, toxic substances, etc.) observed during the inspection of the subject property or that he or she became aware of during the normal research involved in performing the appraisal. Unless otherwise stated in the appraisal report, the appraiser has no knowledge of any hidden or unapparent conditions of the property or adverse environmental conditions (including the presence of hazardous wastes, toxic substances, etc.) that would make the property more or less valuable, and has assumed that there are no such conditions and makes no guarantees or warranties, express or implied, regarding the condition of the property. The appraiser will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because the appraiser is not an expert in the field of environmental hazards, the appraisal report must not be considered as an environmental assessment of the property.
- 7. The appraiser obtained the information, estimates, and opinions that were expressed in the appraisal report from sources that he or she considers to be reliable and believes them to be true and correct. The appraiser does not assume responsibility for the accuracy of such items that were furnished by other parties.
- 8. The appraiser will not disclose the contents of the appraisal report except as provided for in the Uniform Standards of Professional Appraisal Practice.
- 9. The appraiser has based his or her appraisal report and valuation conclusion for an appraisal that is subject to satisfactory completion, repairs, or alterations on the assumption that completion of the improvements will be performed in a workmanlike manner.
- 10. The appraiser must provide his or her prior written consent before the lender/client specified in the appraisal report can distribute the appraisal report (including conclusions about the property value, the appraiser's identity and professional designations, and references to any professional appraisal organizations or the firm with which the appraiser is associated) to anyone other than the borrower; the mortgagee or its successors and assigns; the mortgage insurer, consultants; professional appraisal organizations; any state or federally approved financial institution; or any department, agency, or instrumentality of the United States or any state or the District of Columbia; except that the lender/client may distribute the property description section of the report only to data collection or reporting service(s) without having to obtain the appraiser's prior written consent. The appraiser's written consent and approval must also be obtained before the appraisal can be conveyed by anyone to the public through advertising, public relations, news, sales, or other media.

APPRAISER'S CERTIFICATION: The Appraiser certifies and agrees that:

- 1. I have researched the subject market area and have selected a minimum of three recent sales of properties most similar and proximate to the subject property for consideration in the sales comparison analysis and have made a dollar adjustment when appropriate to reflect the market reaction to those items of significant variation. If a significant item in a comparable property is superior to, or more favorable than, the subject property, I have made a negative adjustment to reduce the adjusted sales price of the comparable and, if a significant item in a comparable property is inferior to, or less favorable than the subject property, I have made a positive adjustment to increase the adjusted sales price of the comparable.
- 2. I have taken into consideration the factors that have an impact on value in my development of the estimate of market value in the appraisal report. I have not knowingly withheld any significant information from the appraisal report and I believe, to the best of my knowledge, that all statements and information in the appraisal report are true and correct.
- 3. I stated, in the appraisal report, only my own personal, unbiased, and professional analysis, opinions, and conclusions, which are subject only to the contingent and limiting conditions specified in this form.
- 4. I have no present or prospective interest in the property that is the subject of this report, and I have no present or prospective personal interest or bias with respect to the participants in the transaction. I did not base, either partially or completely, my analysis and/or the estimate of market value in the appraisal report on the race, color, religion, sex, handicap, familial status, or national origin of either the prospective owners or occupants of the subject property or of the present owners or occupants of the properties in the vicinity of the subject property.
- 5. I have no present or contemplated future interest in the subject property, and neither my current or future employment nor my compensation for performing this appraisal is contingent on the appraised value of the property.
- 6. I was not required to report a predetermined value or direction in value that favors the cause of the client or any related party, the amount of the value estimate, the attainment of a specific result, or the occurrence of a subsequent event in order to receive my compensation and/or employment for performing the appraisal. I did not base the appraisal report on a requested minimum valuation, a specific valuation, or the need to approve a specific mortgage loan.
- 7. I performed this appraisal in conformity with the Uniform Standards of Professional Appraisal Practice that were adopted and promulgated by the Appraisal Standards Board of The Appraisal Foundation and that were in place as of the effective date of this appraisal, with the exception of the departure provision of those Standards, which does not apply. I acknowledge that an estimate of a reasonable time for exposure in the open market is a condition in the definition of market value and the estimate I developed is consistent with the marketing time noted in the neighborhood section of this report, unless I have otherwise stated in the reconciliation section.
- 8. I have personally inspected the interior and exterior areas of the subject property and the exterior of all properties listed as comparables in the appraisal report. I further certify that I have noted any apparent or known adverse conditions in the subject improvements, on the subject site, or on any site within the immediate vicinity of the subject property of which I am aware and have made adjustments for these adverse conditions in my analysis of the property value to the extent that I had market evidence to support them. I have also commented about the effect of the adverse conditions on the marketability of the subject property.
- 9. I personally prepared all conclusions and opinions about the real estate that were set forth in the appraisal report. If I relied on significant professional assistance from any individual or individuals in the performance of the appraisal or the preparation of the appraisal report, I have named such individual(s) and disclosed the specific tasks performed by them in the reconciliation section of this appraisal report. I certify that any individual so named is qualified to perform the tasks. I have not authorized anyone to make a change to any item in the report; therefore, if an unauthorized change is made to the appraisal report, I will take no responsibility for it.
- 10. I have provided no services, as an appraiser or in any other capacity, regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment.
- 11. There is an Extraordinary Assumption regards interior which was not inspected. If it differs from that expressed the conclusion may change however, the difference between the Before & After state will not change due to the application of the same assumptions.
- 12. There is a Hypotehtical Condition in that the propeosed tower is assumed to be in place on the "as of date" when in fact it is only proposed.

SUPERVISORY APPRAISER'S CERTIFICATION: If a supervisory appraiser signed the appraisal report, he or she certifies and agrees that: I directly supervise the appraiser who prepared the appraisal report, have reviewed the appraisal report, agree with the statements and conclusions of the appraiser, agree to be bound by the appraiser's certifications numbered 4 through 7 above, and am taking full responsibility for the appraisal and the appraisal report.

APPRAISER:	SUPERVISORY APPRAISER (only if required):
ignature: V and U web and	Signature:
ame: Vern J. Gardner, Jr., MAI, SRA	Name:
ate Signed: August 27, 2018	Date Signed:
ate Certification #: NHCG 116	State Certification #:
State License #:	or State License #:
tate: New Hampshire	State:
xpiration Date of Certification or License: 01/31/19	Expiration Date of Certification or License:
	☐ Did ☐ Did Not Inspect Property

File No. MAS2.08/18 Page #4 APPRAISAL REPORT @ Extraordinary Assumption & Hypothetical Condition MAS2.08/18 UNIFORM RESIDENTIAL APPRAISAL REPORT Property Description File No. Property Address 115 Brackett Road Zip Code 03870 State NH City Rye Legal Description Book 2842, Page 1696 County Rockingham Assessor's Parcel No. 22 - 64 Tax Year 2018 R.E. Taxes \$ 3,446.50 Special Assessments \$ None Owner Tenant Vacant Borrower Not applicable Current Owner Murray L. Mason Occupant ☐ PUD Fee Simple Leasehold HOA \$ None Property rights appraised Project Type Condominium (HUD/VA only) Neighborhood or Project Name Brackett Road/Berry Brook watershed Map Reference Census Tract Sales Price \$ Date of Sale Description and \$ amount of loan charges/concessions to be paid by seller Address 135 Brackett Road, Rye, New Hampshire 03870 Lender/Client Kathleen Ruth McCabe Address Horizon Associates, P.O. Box 214, Portsmouth, New Hampshire 03802 Appraiser Vern J. Gardner, Jr., MAI, SRA Predominant occupancy Single family housing Present land use % Land use change Location Urban Suburban Rural \$(000) One family 85 X Not likely Likely Built up Over 75% 25-75% Under 25% (yrs) 95 Growth rate Rapid Stable Slow X Owner 350 Low 2-4 family In process 850 High 250 Multi-family Property values Increasing Stable Declining X Tenant To: X Vacant (0-5%) Demand/supply Shortage In balance Over supply Predominant Commercial Vacant) Under 3 mos. 3-6 mos. Over 6 mos. Vacant (Over 5%) Marketing time Note: Race and the racial composition of the neighborhood are not appraisal factors. Neighborhood boundaries and characteristics: are defined as NE Rye. Such a location is about 2 miles north of the village with its Town Hall & Safety Complex. Rye has no economic base but instead relies on Portsmouth with its local & regional shopping & employment. The heart of Portsmouth is Market Square Factors that affect the marketability of the properties in the neighborhood (proximity to employment and amenities, employment stability, appeal to market, etc.): which is located about 3 miles to the north. The Atlantic Ocean is 1 miles to the east & access to I-95 is about 3 miles to the west. The district consists of single-family dwellings that differ by style & age to include Cottages & Colonials, Capes & Ranches. These are of good to average construction & condition. Those in the vicinity of the subject show signs of deferred maintenance. Brackett Road is a connector between the beach & Foyes corner with moderate to light traffic. Market conditions in the subject neighborhood (including support for the above conclusions related to the trend of property values, demand/supply, and marketing time -- such as data on competitive properties for sale in the neighborhood, description of the prevalence of sales and financing concessions, etc.): The region is subject to moderate demand in the face of limited supply which has placed pressure to increase prices & rents while reducing vacancy & marketing time. The seasonal fluctuations in the market are pronounced with the slowest period between November & April. Financing is readily available with terms of 10% down at 4-5% for 30 years with no points. According to MLS the number of days on market is 30 - 120 which is equal to the exposure Project Information for PUDs (If applicable) - - Is the developer/builder in control of the Home Owners' Association (HOA)? . Approximate total number of units for sale in the subject project Approximate total number of units in the subject project Describe common elements and recreational facilities: Dimensions Frontage 351 (Tax map) Topography Rolling Site area 2.40 ac (Tax Map) X No Corner Lot Yes Typical Size Specific zoning classification and description Single residence 66,000 sf Shape Irregular Legal nonconforming (Grandfathered use) Zoning compliance Legal Illegal No zoning Drainage Adequate some wetlands to west Other use (explain) SFD Highest & best use as improved Present use Neighborhood View Utilities Other Off-site Improvements Private Landscaping Modest Electricity Asphalt & gravel Street Asphalt Driveway Surface Gas Curb/Gutter None/typical Apparent Easements In fall zone Water Sidewalk None/typical FEMA Special Flood Hazard Area Yes Street Lights Sodium vapor Sanitary Sewer FEMA Zone Map Date Storm Sewer None/typical Alley FEMA Map No. Comments (apparent adverse easements, encroachments, special assessments, slide areas, illegal or legal nonconforming zoning use, etc.): Highest and Best Use as vacant & improved is SFR which is supported by pre-existing dimensions/uses plus surrounding uses in the face of moderate demand. The site faces east to Brackett Road & appears to be on a rock outcrop/ledge. The interior was not inspected therefore the descriptors are assumed. GENERAL DESCRIPTION EXTERIOR DESCRIPTION FOUNDATION BASEMENT INSULATION No. of Units Foundation Concrete block Slah Area So. Ft. Roof Exterior Walls No. of Stories 1.75 Shingles Crawl Space None % Finished Ceiling Ceiling Type (Det./Att.) Detached Roof Surface Asphalt Basement None Walls Design (Style) Cottage Gutters & Dwnspts. None Sump Pump None Walls Floor Existing/Proposed Existing Window Type DH wood sash Dampness None noted Floor None Age (Yrs.) 88 yrs Storm/Screens Combination Settlement Minor Outside Entry Unknown Effective Age (Yrs.) 25 Manufactured House No Infestation None Noted ROOMS Living Dining Kitchen Family Rm. Rec. Rm. Bedrooms # Baths Other Area Sq. Ft. Laundry Basement Level 1 1,357 Level 2 401 3 Bedroom(s) Finished area above grade contains: 6 Rooms; 1,758 Square Feet of Gross Living Area 1 Bath(s) INTERIOR Materials/Condition HEATING KITCHEN EQUIP ATTIC AMENITIES CAR STORAGE: Floors Carpeting FHW-Refrigerator None Fireplace(s) # Type None X Walls Drywall Fuel Oil Range/Oven Stairs Patio Garage # of cars Trim/Finish Deck Wood Condition Average Disposal Drop Stair Attached Bath Floor Porch Linoleum COOLING Dishwasher Scuttle Detached Bath Wainscot Drywall Central Fan/Hood Floor Fence Built-In Doors Panel Other Microwave Pool Heated Carport Condition: less than average Condition Washer/Dryer Finished Driveway Additional features (special energy efficient items, etc.): According to the assessor's records the building originally served as a garage and sheds that have been

Additional leatures (special energy efficient tiems, etc.): According to the assessor's records the building originally served as a garage and sheds that have been remodeled into a Bungalow. Above ground pool contributes no value. The subject is in the Berry Brook watershed.

Condition of the improvements, depreciation (physical, functional, and external), repairs needed, quality of construction, remodeling/additions, etc.: There is no obvious deferred maintenance, physical depreciation (effective age 15 & an economic life 50) after functional cured & there is thought to be functional obsolescence

in the kitchen & bathroom of \$25,000. The negative externality may extend to the need for additional insurance because the subject property is in the fall zone, as are adjoining properties.

Adverse environmental conditions (such as, but not limited to, hazardous wastes, toxic substances, etc.) present in the improvements, on the site, or in the immediate vicinity of the subject property:

There is an externality assumed in the "After state" in that the tower is directly across the street in plain view therefore proximate & in the primary view of the dwelling. Further the subject is within the fall zone as is Larson & Lintz

Valuation Section	UNIFOR	(M KEZIDENI				File No.	MAS2.08/18
ESTIMATED SITE VALUESTIMATED REPRODU	CTION COST NEW OF	= §	\$300	,000 Comments on Cos	t Approach (such as	s, source of cost estimate,	site value, square
Dwelling1,	CTION COST-NEW OF	72.35 = \$		foot calculation an	d, for HUD, VA and	FmHA, the estimated rem	aining economic
	So Ft @ \$	=	12/131	A CONTRACTOR OF THE PROPERTY O		oach is based on Mars	
Garage/Carport Total Estimated Cost-New Physics Less 29					A CONTRACTOR OF THE PARTY OF TH	which is supplemented	with local
Garage/Carport	Sq. Ft. @ \$				alue includes sor		
Total Estimated Cost-New	= ==================================	= \$	127191		enance		
Less Physica	al , Functional , Ext	ernal			ation (15/50)		
		10	077000		lescence		
Depreciation 49,604		.,719 = \$	87323		scence		
Depreciated Value of Impi				9868 51 Brackett Roa			
"As-is" Value of Site Impre				,500 Lot 1 Old Ferry 7368	Roau07 ac - ş	5340,000 - 02/27/16	
INDICATED VALUE BY	SUBJECT	COMPARAB		COMPARAB	IENO 2	COMPARABL	E NO 2
115 Brackett I		119 Wentworth Road		232 Garland Road	LE MU. Z	299 Wallis Road	E NU. 3
Address Rye, NH 0387		Rye, NH 03870		Rye, NH 03870		Rye, NH 03870	
Proximity to Subject		2 miles (est)		2 miles (est)		2 miles	
Sales Price	\$	Commission of the Commission o	50,000	CONTRACTOR OF THE PARTY OF THE	50,000	Business and the Control of the Cont	20,000
Price/Gross Liv. Area	\$ \(\sigma \)	\$ 331.44	The second secon	\$ 275.16	Commission of the Commission o	\$ 253.16	THE RESERVE AND PROPERTY AND PERSONS ASSESSED.
Data and/or	Public records	MLS 4682170		MLS 4662843	-	MLS4632129	
Verification Sources		Bonnie Dridi 603-944	-8195*	Cathy Youngs 603-50	02-8490*	Deb Lynch 603-396-5	401*
VALUE ADJUSTMENTS	DESCRIPTION	DESCRIPTION	+(-) Adjustment	DESCRIPTION	+(-) Adjustment	DESCRIPTION	+(-) Adjustment
Sales or Financing		None disclosed	0	None disclosed	0	None disclosed	0
Concessions		DOM 59	0	DOM 22	0	DOM 0	0
Date of Sale/Time		05/31/18	-4,400	11/17/17	-13,000	07/27/17	-16,000
Location	Suburban	Suburban		Suburban		Suburban	0
	Fee Simple	Fee simple		Fee simple		Fee simple	0
Site	2.40 ac (Tax Map)	.18 (.14) ac	22,200			1.25 ac	11,500
	Neighborhood	Neighborhood		Neighborhood		Neighborhood	0
Design and Appeal	Cottage	Cottage		Ranch		Cape	0
Quality of Construction	Fair	Less than average		Less than average		Less than average	0
Age	88 (15) yrs	63 (10) yrs		53 (25) yrs		68 (25) yrs	12,000
Condition 2	Less than average	Less than average	see allove	Less than average	See above	Less than average	see above
Above Grade	Total Bdrms Baths 6 3 1	Total Bdrms Baths 6 2 1	0	Total Bdrms Baths 6 3 1F1H	-1.000	Total Bdrms Baths 6 2 1	
Room Count		6 2 1 1,056 Sq. Ft.	17,550		-1,000 12,150		12.250
Gross Living Area Basement & Finished	1758 Sq. Ft.	1,030 3q. Ft.	17,330	1,272 Sq. Ft.	12,150	1,204 Sq. Ft.	12,350
Rooms Below Grade	None	None	0	Full/0%	-3 500	Full/0%	-3,500
Functional Utility	Fair	Average	-25,000			Fair	-3,300
Heating/Cooling	FHW/None	FWA/None		FWA/None		FWA/None	0
Energy Efficient Items	Limited	Limited		Limited		Limited	0
Garage/Carport	None	None		1 car bsmt		1 car det	-3,000
Porch, Patio, Deck,	None	None		Wood deck		Open porch	-500
Fireplace(s), etc.	Fireplace	Fireplace	0	None		None	1,500
Fence, Pool, etc.	None	Shed	NC	Shed .	NC		
Cell tower/externality			-35,000		-35,000)	-32,000
Net. Adj. (total)			-32,150	+ X - \$	-9,550	+ - \$	-17,650
Adjusted Sales Price		G: 31.90%		G: 29.27%		G: 28.86%	
of Comparable	The second second second	N: 9% \$		N: 2.73% \$		N: 5.52% \$	302,350
Comments on Sales Com							
systems & driveway a					The same of the sa	September 1991 and the second state of the sec	
used for its site location condition however, the							
given the least weight							430. Sale 4 IS
given the least weight	Willie Sale 1 is the in	ost recent & sale s re	equired the least	adjustments therefore	are given the g	reacest weight	
ITEM	SUBJECT	COMPARAB	LE NO. 1	COMPARAB	LE NO. 2	COMPARABI	E NO. 3
Date, Price and Data		4747/1577		2338/1795		3529/2273	
Source for prior sales		\$300,000				\$0	
within year of appraisal		12/20/06		05/22/79		12/19/00	
Analysis of any current ag	reement of sale, option, o	or listing of the subject pro	operty and analysis	of any prior sales of subj	ect and comparable	es within one year of the d	ate of appraisal:
These is no evidence							
INDICATED VALUE BY		보이지의 생각이 있다. 그리 없이 집 하지 않				\$_	310,000
INDICATED VALUE BY	INCOME APPROACH	(If Applicable) Estimated	d Market Rent \$	/Mo. x G	ross Rent Multiplie	r = \$ _	
The appraisal is made	as is" subject	to the repairs, alterations	, inspections, or co	nditions listed below	subject to comp	oletion per plans and spec	ifications.
Conditions of Appraisal:	For the purposes of the	he analysis there is a	Hypothetical Con	dition that assumes t	hat the tower is i	in place on the "as of	date" when in
fact it is not.							
Final Reconciliation: The							
used in the absence of					le). There may b	oe market conditions t	hat warrant the
application of the Inco The purpose of this appra					n the above conditi	ons and the cortification	
contingent and limiting co)3
I (WE) ESTIMATE THE							
The purpose of this appra contingent and limiting co I (WE) ESTIMATE THE (WHICH IS THE DATE (· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			o ner ont, Ac	50.7 22, 2010	
,	1	/				•	
APPRAISER:	(1	SU	PERVISORY APPRAIS	ER (ONLY IF REQ	UIRED):	
Signature V	of March	_ /	Cir	nature			Did Did Not
Name Vern J. Gardne	r, Jr., MAI SRA	1		me .			pect Property
Date Report Signed Aug				te Report Signed		in a	poor i roporty
State Certification # NH				ate Certification #			State
Or State License #				State License #			State
reddie Mac Form 70 6-93	Form rep	roduced by United Systems S			tems.com - Page 2	Fannie N	lae Form 1004 6-93

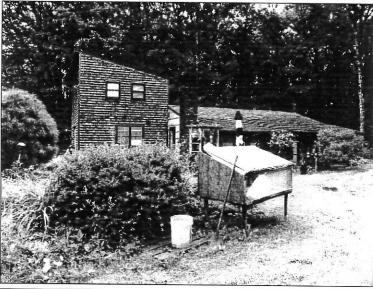
aluation Section		RM RESIDENT					File No.	MAS2.08/
ITEM	SUBJECT	COMPARAB	LE NO. 4	COM	PARABL	E NO. 5	COMPARABL	E NO. 6
115 Brackett		96 Pioneer Road						
Address Rye, NH 0387	/U	Rye, NH						
Proximity to Subject		1 mile (est)			enter .			
Sales Price	\$		00,000		\$		\$	Para managan m
Price/Gross Liv. Area	\$ \			\$	Ø		\$ \(\osigma \)	
Data and/or	Public records	MLS 4666260	- 10 ·	177				
Verification Sources		Mary Beth Hixon 603	-548-5380*					
VALUE ADJUSTMENTS	DESCRIPTION	DESCRIPTION	+(-) Adjustment	DESCRIPTI	ON	+(-) Adjustment	DESCRIPTION	+(-) Adjustme
Sales or Financing		None disclosed	(
Concessions		DOM 70						
Date of Sale/Time		10/31/17	-8,500					
Location	Suburban	Suburban						
Leasehold/Fee Simple	Fee Simple	Fee simple	C					
Site	2.40 ac (Tax Map)	.18 ac	22,000					
View	Neighborhood	Neighborhood	C					
Design and Appeal	Cottage	Gambrel	\$0					
Quality of Construction	Fair	Fair	0					
Age	88 (15) yrs	88 (25) yrs	20,000					
Condition	Less than average	Less than average	see above					
Above Grade	Total Bdrms Baths	Total Bdrms Baths		Total Bdrms	Baths		Total Bdrms Baths	
Room Count	6 3 1	5 3 1	500		Dutilo		Total Damis Dams	1
Gross Living Area	1758 Sq. Ft.	1,120 Sq. Ft.	15,950		Sq. Ft.		Sq. Ft.	-
Basement & Finished	1730 oq.11.	1,120 04.11.	13,550		oq. rt.		5q. r t.	
Rooms Below Grade	None	Partial/00/-	1.500					
	None	Partial/0%	1,500					
Functional Utility	Fair EUW/None	Fair	0					
Heating/Cooling	FHW/None	FWA/None	0					
Energy Efficient Items	Limited	Limited	0	-				
Garage/Carport	None	2 car det	-4,000					
Porch, Patio, Deck,	None	Screen porch	-500	1				
Fireplace(s), etc.	Fireplace	None	1,500					
Fence, Pool, etc.	None	None						
Cell tower/externality			-20,000					
Net. Adj. (total)		X + - \$	28,450	+ -	- \$		+ \$	
Adjusted Sales Price		G: 47.23%			15.0			
of Comparable		N: 14% \$	228,450		\$		\$	
Although the home w The Secondary Mortg appraisal. Under the an attempt to conforr segment within Rye. Although erratic, the	age Market has guide Uniform Standards th m to artificial standard	y transferred with the raisal report does not of lines for the selection dese guidelines were kn is and percentages. The raisand percentages of the raisand percentage	constitute a Hom of Sales within on nown as Supplem he sales selected @ \$757,500 - 20	e Inspection. ne mile and with the mile and Standard are similar to 1 018 @ \$687,500	thin six i Is and the the subj	months do not a neir use frequen lect by their con	apply due to the purpo tly eliminates the best dition which represen	t market data ts a market
	@ \$500, Bathrooms @	two indexes the appra			e @ \$3,	000 + \$1,000.		
Land & building areas	(sf) are approximation	ons therefore not to be	relied upon.					
ITEM	SUBJECT	COMPARABI	LE NO. 4	COM	PARABL	E NO. 5	COMPARABL	FNO 6
Date, Price and Data		5199/1655		OUM	NUL		OUNT ARADI	110. 0
Source for prior sales		\$193,000						
within year of appraisal		03/08/11						
	reement of cale, action	or listing of the subject pro	norty and nonlini-	of any prior cal	of auti-	ot and compact !	a within and was a full of	oto on! !
The reader is again reformer is "effected" & \$7,000 or 3%. A seconds interviewed real	eferred to the appraise the latter "uneffected ond grouping (lot 13 to estate John Rice, 603	or hairs of the subject pro- er's file with examples d" These differ by abo & 14) are opposite one -964-8028, Cathy Your adverse effect on the s	of externalities. out \$50,000 or 11 another on Step ngs 603-502-849	The best of the .%. From amor ohen Drive & d	se exan ng those lemonst	nples is 5 & 6 St e sales on Stepe rate a difference	ephen Drive in Strath hen Drive the average e of \$36,900 or 15%.	am whereby to difference is The appraise
Reference is made he	erein to the data on Gi	fford Farm Road in Str	atham. Details a	are in the appra	aiser's fi	le.		

SUBJECT PHOTOGRAPH ADDENDUM

Borrower/Client Not applicable				
Address 115 Brackett Road			Unit No.	N/A
City Rye	County Rockingham	State NH	Zip Code	03870
Lender/Client Kathleen Ruth McCabe			Lip oods	



Front View



Rear View



Street View

SUBJECT PHOTOGRAPH ADDENDUM

Borrower/Client Not applicable				
Address 115 Brackett Road			Unit No	. N/A
City Rye	County Rockingham	State	NH Zip Cod	le 03870
Lender/Client Kathleen Ruth McCabe				



Facing north to adjoining property Note the dwelling through the trees which will be cleared



Cell Tower site



Cell tower site facing west to the Brackett Road Note car on road & dwelling to the left of car.

COMPARABLE PHOTOGRAPH ADDENDUM

Borrower/Client Not applicable				
Address 115 Brackett Road			Unit No.	N/A
City Rye	County Rockingham	State NH	Zip Code	03870
Lender/Client Kathleen Ruth McCabe				



Sales Comparable 1 Front View

Location:

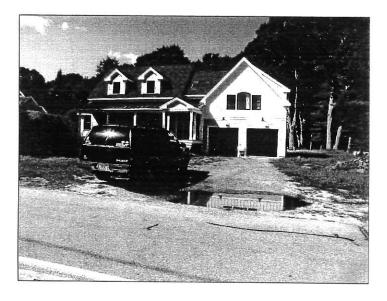
Address: 119 Wentworth Road
Prox. to Subject: 2 miles (est)
Sales Price: \$ 350,000
Gross Living Area: 1,056
Total Rooms: 6
Total Bedrooms: 2
Total Bathrooms: 1.00

Suburban



Sales Comparable 2 Front View

232 Garland Road Address: 2 miles (est) Prox. to Subject: Sales Price: \$ 350,000 Gross Living Area: 1,272 Total Rooms: 6 Total Bedrooms: 3 Total Bathrooms: 1.00F1H Location: Suburban

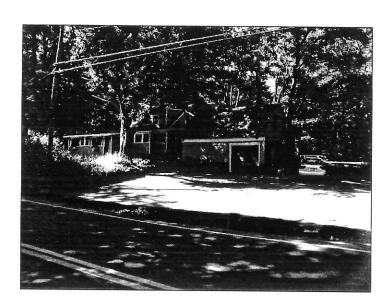


Sales Comparable 3 Front View

Address: 299 Wallis Road
Prox. to Subject: 2 miles
Sales Price: \$ 320,000
Gross Living Area: 1,264
Total Rooms: 6
Total Bedrooms: 2
Total Balhrooms: 1.00
Location: Suburban

COMPARABLE PHOTOGRAPH ADDENDUM

Borrower/Client Not applicable					
Address 115 Brackett Road				Unit No.	N/A
City Rye	County Rockingham	State	NH	Zip Code	03870
Lender/Client Kathleen Ruth McCabe				Lip codo	

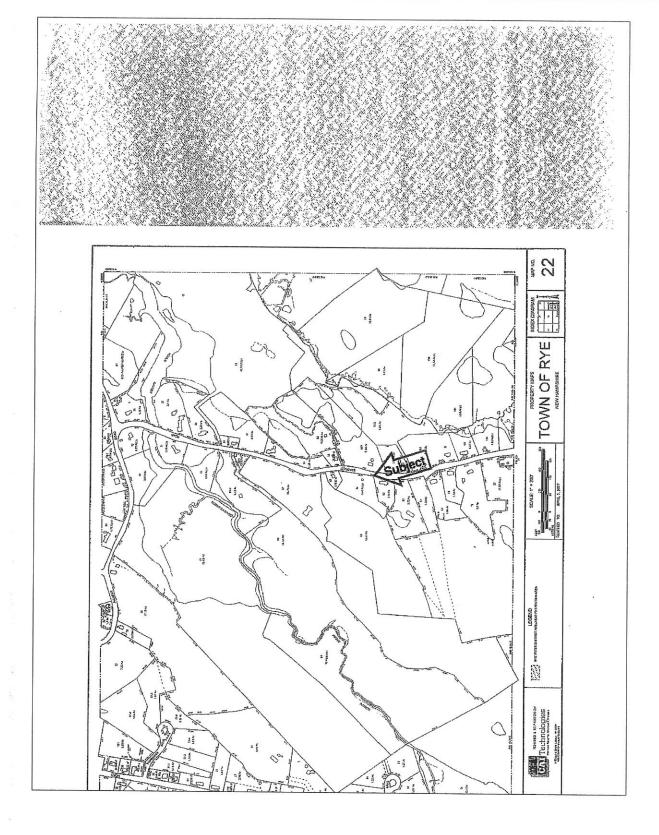


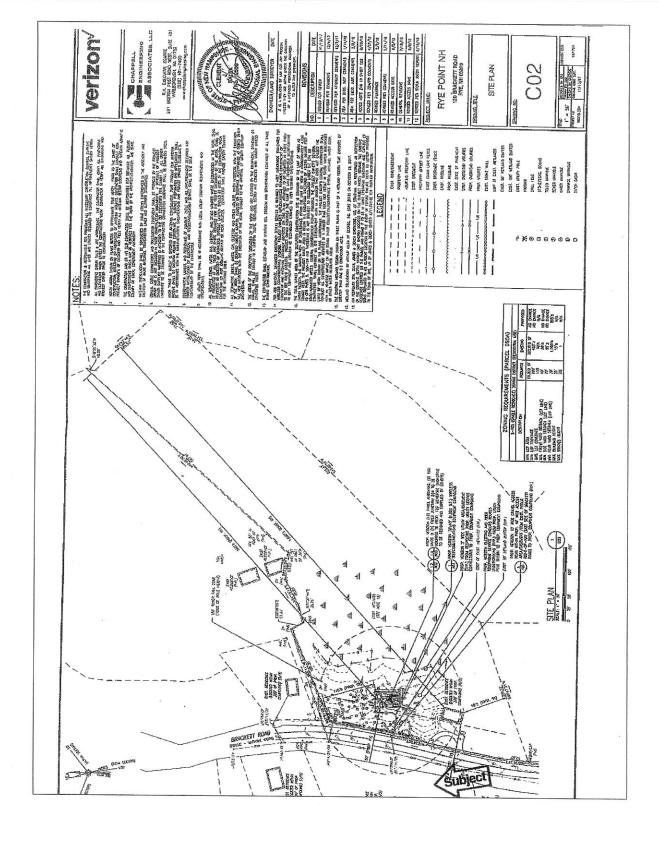
Sales Comparable 4 Front View

Address: 96 Pioneer Road
Prox. to Subject: 1 mile (est)
Sales Price: \$ 200,000
Gross Living Area: 1,120
Total Rooms: 5
Total Bedrooms: 3
Total Bathrooms: 1.00
Location: Suburban

Address: Prox. to Subject: Sales Price: \$ Gross Living Area: Total Rooms: Total Bedrooms: Total Bathrooms:

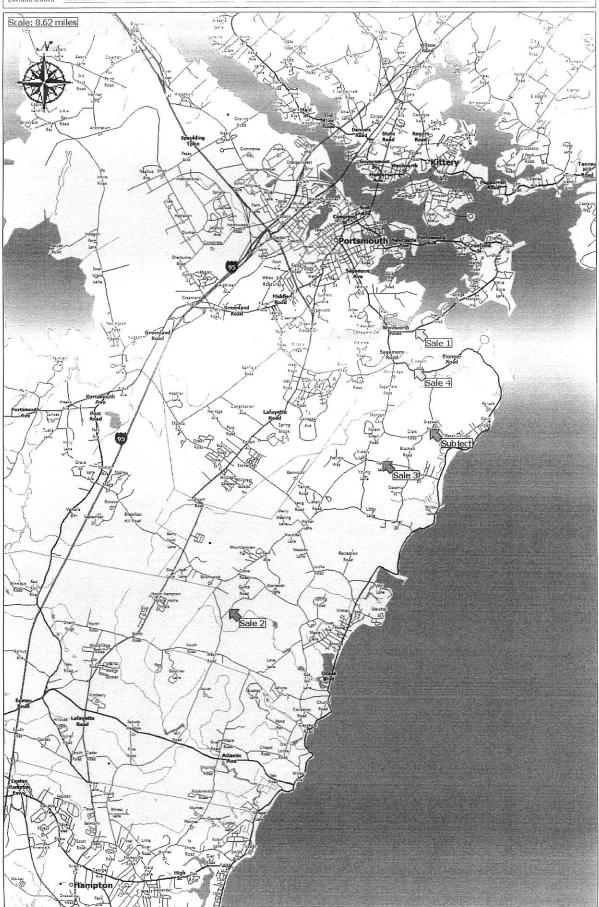
Address: Prox. to Subject: Sales Price: \$ Gross Living Area: Total Rooms: Total Bedrooms: Total Bathrooms:





LOCATION MAP

Borrower/Client Not applicable				
Address 115 Brackett Road			Unit No.	N/A
City Rye	County Rockingham	State NH	_ Zip Code	03870
Lender/Client Kathleen Ruth McCabe				



Form produced by United Systems Software Company (800) 969-8727 www.unitedsystems.com



The Impact of Cell Phone Towers on House Prices in Residential Neighborhoods

abstract

This article examines whether proximity to cellular phone towers has an impact on residential property values and the extent of any impact. First, a survey approach is used to examine how residents perceive living near cellular phone base stations (CPBSs) and how residents evaluate the impacts of CPBSs. Next, a market study attempts to confirm the perceived value impacts reported in the survey by analyzing actual property sales data. A multiple regression analysis in a hedonic pricing framework is used to measure the price impact of proximity to CPBSs. Both the survey and market sales analysis find that CPBSs have a negative impact on the prices of houses in the

by Sandy Bond, PhD, and Ko-Kang Wang

he introduction of cellular phone systems and the rapid increase in the number of users of cellular phones have increased exposure to electromagnetic fields (EMFs). Health consequences of long-term use of cellular phones are not known in detail, but available data indicates that development of nonspecific health symptoms is possible. Conversely, it appears health effects from cellular phone equipment (antennas and base stations) pose few, if any, known health hazards.

A concern associated with cellular phone usage is the siting of cellular phone transmitting antennas (CPTAs) and cellular phone base stations (CPBSs). In New Zealand, CPBS sites are increasingly in demand as the major cellular phone companies there, Telecom and Vodafone, upgrade and extend their network coverage. This demand could provide the owner of a well-located property a yearly income for the siting of a CPBS.⁵ However, new technology that represents potential hazards to human health and safety may cause property values to diminish due to public perceptions of hazards. Media attention to the potential health hazards of CPBSs has spread concerns among the public, resulting in increased resistance to CPBS sites.

Some studies suggest a positive correlation between long-term exposure to the electromagnetic fields and certain types of cancer,4 yet other studies report inconclusive results on health effects. Notwithstanding the research results, media reports indicate that the extent of opposition from some property owners

study areas.

Stanislaw Szmigielski and Elizbieta Sobiczewska, "Cellular Phone Systems and Human Health-Problems with Risk Perception and Communication," Environmental Management and Health 11, no. 4 (2000): 352-368.

^{2.} Jerry R. Barnes, "Cellular Phones: Are They Safe?" Professional Safety 44, no. 12 (Dec. 1999): 20-23.

^{3.} R. Williams, "Phone Zone—Renting Roof Space to Ma Bell," The Property Business 12 (April 2001): 6-7.

C. M. Krause et al., "Effects of Electromagnetic Field Emitted by Cellular Phones on the EEG During a Memory Task," Neuroreport 11, no. 4 (2000): 761-764.

Independent Expert Group on Mobile Phones, Mobile Phones and Health (Report to the United Kingdom Government, 2000), http://www.iegmp.org.uk.

affected by the siting of CPBSs remains strong.6 However, the extent to which such attitudes are reflected in lower property values for homes located near CPBSs is not known.

Understanding the impact of CPBSs on property values is important to telecommunications companies both for planning the siting of CPBSs and for determining likely opposition from property owners. Similarly, property appraisers need to understand the valuation implications of CPBSs when valuing CPBS-affected property. The owners of affected property also want to understand the magnitude of any effects, particularly if compensation claims or an award for damages are to be made based on any negative effects on value.

The research here uses a case study approach to determine residents' perceptions towards living near CPBSs in Christchurch, New Zealand, and to quantify these effects in monetary terms according to an increasing or decreasing percentage of property value. The case study uses both an opinion survey and an econometric analysis of sales transaction data. A comparison of the results can be used to help appraisers value affected property as well as to resolve compensation issues and damage claims in a quantitative way. Further, the results provide a potential source of information for government agencies in assessing the necessity for increased information pertaining to CPBSs.

The following provides a brief review of the cellular phone technology and relevant literature. Then, the next section describes the research procedure used, including descriptions of the case study and control areas. The results are then discussed, and the final section provides a summary and conclusion.

Cellular Telephone Technology⁷

Cellular (mobile) telephones are sophisticated twoway radios that use ultrahigh frequency (UHF) radio waves to communicate information. The information is passed between a mobile phone and a network of low-powered transceivers, called mobile phone sites or cell sites. As mobile sites are very low powered they serve only a limited geographic area (or "cell"), varying from a few hundred meters to several kilometers; they can handle only a limited number of calls at one time. When a mobile phone

user on the move leaves one cell and enters another, the next site automatically takes over the call, allowing contact to be maintained.

When a mobile phone call is initiated, the phone connects to the network by using radio signals to communicate with the nearest mobile phone site. The mobile phone sites in a network are interlinked by cable or microwave beam, enabling phone calls to be passed from one cell to another automatically. A mobile phone site is typically made up of a mast with antennas connected to equipment stored in a cabinet. Power is fed into the cabinet by underground cable. The antennas are designed to transmit most of the signal away horizontally, or just below horizontal, rather than at steep angles to the ground.

Mobile phone sites can only accommodate a limited number of calls at any one time. When this limit is reached, the mobile phone signal is transferred to the next nearest site. If this site is full or is too far away, the call will fail.

Cell site capacity is a major issue for telecommunication companies. As the number of people using mobile phones grows, more and more cell sites are required to meet customer demand for reliable coverage. At the end of March 2002, Telecom had more than 1.3 million mobile phone customers and more than 750 mobile phone sites throughout New Zealand. Vodafone had over 1.1 million mobile phone customers.8 In areas, such as Auckland (the largest city in New Zealand, with close to a third of the NZ population), where almost complete coverage has been achieved, the main issue is ensuring that there is the capacity to handle the ever-increasing number of mobile phones and calls.

Locating Cellular Phone Sites

For cellular phone service providers, the main goals when locating cell sites are (1) finding a site that provides the best possible coverage in the area without causing interference with other cells, and (2) finding a site that causes the least amount of environmental impact on the surrounding area. Service providers usually attempt to locate cell sites on existing structures such as buildings, where antennas can be mounted on the roof to minimize the environmental impact. If this is not possible, a mast will need to be erected to support the antennas for the new cell site.

S. Fox, "Cell Phone Antenna Worries Family," East & Bays Courier, November 8, 2002, 1.

The information in this section was sourced from Telecom, http://www.telecom.co.nz; New Zealand Ministry for the Environment, http://www.mfe.govt.nz; and New Zealand Ministry of Health, http://www.moh.govt.nz.

Vodafone, "Cell Sites and the Environment," http://www.vodafone.co.nz/aboutus/vdfn_about_cellsites.pdf (accessed December 19, 2002) and "Mobile Phones and Health," http://www.vodafone.co.nz/aboutus/vdfn_about_health_and_safety.pdf (accessed December 19, 2002); and Telecom, "Mobile Phone Sites and Safety," http://www.telecom.co.nz/content/0,3900,27116-1536,00.html (accessed December 19, 2002).

Service providers prefer to locate cell sites in commercial or industrial areas due to the "resource consent" procedure required by the Resource Management Act 19919 for towers located in residential areas.

Despite the high level of demand for better cell phone coverage, the location of cell sites continues to be a contentious issue. The majority of people want better cell phone coverage where they live and work, but they do not want a site in their neighborhood. Thus, cell sites in or near residential areas are of particular concern. Concerns expressed usually relate to health, property values, and visual impact.10

In general, uncertainties in the assessment of health risks from base stations are presented and distributed in reports by organized groups of residents who protest against siting of base stations. When the media publishes these reports it amplifies the negative bias and raises public concerns. According to Covello, this leads to incorrect assessment of risks and threats by the public, with a tendency to overestimate risks from base stations and neglect risks from the use of cell phones.11

Assessment of Environmental Effects

Under the Resource Management Act 1991 (RMA), an assessment of environmental effects is required every time an application for resource consent is made. Information that must be provided includes "an assessment of any actual or potential effects that the activity may have on the environment, and the ways in which any adverse effects may be mitigated."12 An assessment of the environmental effects of cell sites would take into consideration such things as health and safety effects; visual effects; effects on the neighborhood; and interference with radio and television reception.

Radio Frequency and Microwave Emissions from CPBSs

According to the Ministry for the Environment, the factors that affect exposure to radiation are as follows:

· Distance. Increasing the distance from the emitting source decreases the radiation's strength and decreases the exposure.

- · Transmitter power. The stronger the transmitter, the higher the exposure.
- · Directionality of the antenna. Increasing the amount of antennas pointing in a particular direction increases the transmitting power and increases the exposure.
- · Height of the antenna above the ground. Increasing the height of an antenna increases the distance from the antenna and decreases the exposure.
- · Local terrain. Increasing the intervening ridgelines decreases the exposure.15

The amount of radiofrequency power absorbed by the body (the dose) is measured in watts per kilogram, known as the specific absorption rate (SAR). The SAR depends on the power density in watts per square meter. The radio frequencies from cellular phone systems travel in a "line of sight." The antennas are designed to radiate energy horizontally so that only small amounts of radio frequencies are directed down to the ground. The greatest exposures are in front of the antenna so that near the base of these towers, exposure is minimal. Further, power density from the transmitter decreases rapidly as it moves away from the antenna. However, it should be noted that by initially walking away from the base, the exposure rises and then decreases again. The initial increase in exposure corresponds to the point where the lobe from the antenna beam intersects the ground.14

Health Effects

According to Szmigielski and Sobiczewska, the analogue phone system (using the 800-900 megahertz band) and digital phone system (using the 1850–1990 megahertz band) expose humans to electromagnetic field (EMF) emissions: radio frequency radiation (RF) and microwave radiation (MW), respectively. These two radiations are emitted from both cellular phones and CPBSs.15

For years cellular phone companies have assured the public that cell phones are safe. They state that the particular set of radiation parameters associated with cell phones is the same as any other ra-

^{9.} The Resource Management Act 1991 is the core of the legislation intended to help achieve sustainability in New Zealand; see http://www.mfe.govt.nz/ laws/rma.

^{10.} Szmigielski and Sobiczewska: and Barnes.

^{11.} Vincent T. Covello, "Risk Perception, Risk Communication, and EMF Exposure: Tools and Techniques for Communicating Risk Information," in Risk Perception, Risk Communication and Its Application to EMF Exposure: Proceedings of the World Health Organization and ICNIRP Conference, ed. R. Matthes, J. H. Bernhardt, M. H. Repucholi, 179-214 (Munich, Germany, May 1998).

^{12.} Section 88(4), (b), Resource Management Act 1991.

^{13.} Ministry for the Environment and Ministry of Health, National Guidelines for Managing the Effects of Radiofrequency Transmitters, available at http:// www.mfe.govt.nz and http://www.moh.govt.nz (accessed May 21, 2002).

^{14.} Ibid.; and Szmigielski and Sobiczewska.

^{15.} Szmigielski and Sobiczewska

dio signal. However, reported scientific evidence challenges this view and shows that cell phone radiation causes various effects, such as altered brain activity, memory loss, and fatigue.16

According to Cherry, there is also strong evidence to conclude that cell sites are risk factors for certain types of cancer, heart disease, neurological symptoms and other effects.¹⁷ The main concerns related to EMF emissions from CPBSs are linked to the fact that radio frequency fields penetrate exposed tissues.

Public concern regarding both cell phones and CPBSs in many countries has led to establishment of independent expert groups to carry out detailed reviews of the research literature. Research on the health effects of exposures to RF are reviewed by, for instance, the NZ Radiation Laboratory, the World Health Organization, the International Commission on Non-Ionizing Radiation Protection (ICNIRP), the Royal Society of Canada, and the UK Independent Expert Group on Mobile Phones. The reviews conclude that there are no clearly established health effects for low levels of exposure. Such exposures typically occur in publicly accessible areas around radio frequency transmitters. However, there are questions over the delayed effects of exposure.

While present medical and epidemiological studies reveal weak association between health effects and low-level exposures of RF/MW fields, controversy remains among scientists, producers, and the general public. Negative media attention has fuelled the perception of uncertainty over the health effects from cell phone systems. Further scientific or technological information is needed to allay fears of the public about cell phone systems.

Radio Frequency Radiation Exposure Standards International Standards. The reviews of research on the health effects of exposures to RF have helped establish exposure standards that limit RF exposures to a safe level. Most standards-including those set by the ICNIRP, the American National Standards Institute (ANSI), and New Zealand-are based on the most-adverse potential effects.

The 1998 ICNIRP guidelines have been accepted by the world's scientific and health communities; these guidelines are both consistent with other stated standards and published by a highly respected and independent scientific organization. The ICNIRP is responsible for providing guidance and advice on the health hazards of nonionizing radiation for the World Health Organization (WHO) and the International Labour Office.18

The New Zealand Standard. In New Zealand, when a mobile phone site is being planned, radio frequency engineers calculate the level of electromagnetic energy (EME) that will be emitted by the site. The level of EME is predicted by taking into account factors such as power output, cable loss, antenna gain, path loss, and height and distance from the antenna. These calculations allow engineers to determine the maximum possible emissions in a worst-case scenario, i.e., as if the site was operated at maximum power all the time. The aim is to ensure that EME levels are below international and NZ standards in areas where the general public has unrestricted access.

All mobile phone sites in New Zealand must comply in all respects with the NZ standard for radio frequency exposures.19 This standard is the same as used in most European countries, and is more stringent than that used in the United States, Canada, and Japan. Some local communities in New Zealand have even lower exposure-level standards; however, in reality mobile phone sites only operate at a fraction of the level set by the NZ standard. The National Radiation Laboratory has measured exposures around many operating cell sites, and maximum exposures in publicly accessible areas around the great majority of sites are less than 1% of the exposure limit of the NZ standard. Exposures are rarely more than a few percent of the limit, and none have been above 10%.

Court Decisions

Two court cases in New Zealand have alleged adverse effects due to CPBSs: McIntyre v. Christchurch City

^{16.} K. Mann and J. Röschke, "Effects of Pulsed High-Frequency Electromagnetic Fields on Human Sleep," Neuropsychobiology 33, no. 1 (1996): 41-47; Krause et al.; Alexander Borbely et al., "Pulsed High-Frequency Electromagnetic Field Affects Human Sleep and Sleep Electroencephalogram," Neurosci Let, 275, no. 3 (1999): 207-210; L. Kellenyi et al., "Effects of Mobile GSM Radiotelephone Exposure on the Auditory Brainstem Response (ABR)," Neurobiology 7, no. 1 (1999): 79-81; B. Hocking, "Preliminary Report: Symptoms Associated with Mobile Phone Use," Occup Med 48, no. 6 (Sept. 1998): 357-360; and others as reported in Neil Cherry, Health Effects Associated with Mobil Base Stations in Communities: The Need for Health Studies, Environmental Management and Design Division, Lincoln University (June 8, 2000); http://pages.britishlibrary.net/orange/cherryonbasestations.htm.

^{17.} Cherry.

^{18.} Ministry for the Environment and Ministry of Health.

^{19.} NZS 2772.1:1999, "Radiofrequency Fields Part I: Maximum Exposure Levels – 3kHz to 300GHz." This standard was based largely on the 1998 ICNIRP recommendations for maximum human exposure levels to radio frequency. The standard also includes a requirement for minimizing radio frequency exposure. See National Radiation Laboratory, Cell Sites (March 2001), 7; available at http://www.nrl.moh.govt.nz/CellsiteBooklet.pdf.

Council²⁰ and Shirley Primary School v. Telecom Mobile Communications Ltd.21 Very few cell site cases have actually proceeded to Environment Court hearings. In these two cases the plaintiffs claimed that there was a risk of adverse health effects from radio frequency radiation emitted from cell phone base stations and that the CPBSs had adverse visual effects.

In McIntyre, Bell South applied for resource consent to erect a CPBS. The activity was a noncomplying activity under the Transitional District Plan. Residents objected to the application. Their objections were related to the harmful health effects from radio frequency radiation. In particular, they argued it would be an error of law to decide, based on the present state of scientific knowledge, that there are no harmful health effects from low-level radio frequency exposure. It was also argued that the Resource Management Act contains a precautionary policy and also requires a consent authority to consider potential effects of low probability but high impact in reviewing an application.

The Planning Tribunal considered residents' objections and heard experts' opinions as to the potential health effects, and granted the consent, subject to conditions. It was found that there would be no adverse health effects from low levels of radiation from the proposed transmitter, not even effects of low probability but high potential impact.

In Shirley Primary School, Telecom applied to the Christchurch City Council for resource consent to establish, operate, and maintain a CPBS on land adjacent to the Shirley Primary School. This activity was a noncomplying activity under the Transitional District Plan. Again, the city council granted the consent subject to conditions. However, the school appealed the decision, alleging the following four adverse effects:

- · Risk of adverse health effects from the radio frequency radiation emitted from the cell site
- · Adverse psychological effects on pupils and teachers because of the perceived health risks
- · Adverse visual effects
- · Reduced financial viability of the school if pupils withdraw because of the perceived adverse health effects

The court concluded that the risk of the children or teachers at the school developing leukemia or other cancers from radio frequency radiation emitted by

the cell site is extremely low, and the risk to the pupils of developing sleep disorders or learning disabilities because of exposure to radio frequency radiation is higher, but still very small. Accordingly, the Telecom proposal was allowed to proceed.

In summary, the Environmental Court ruled that there are no established adverse health effects from the emission of radio waves from CPBSs and no epidemiological evidence to show this. The court was persuaded by the ICNIRP guidelines that risk of health effects from low-level exposure is very low and that the cell phone frequency imposed by the NZ standard is safe, being almost two and one-half times lower than that of the ICNIRP.

The court did concede that while there are no proven health effects, there was evidence of property values being affected by both of the health allegations. The court suggested that such a reduction in property values should not be counted as a separate adverse effect from, for example, adverse visual or amenities effects. That is, a reduction in property values is not an environmental effect in itself; it is merely evidence, in monetary terms, of the other adverse effects noted.

In a third case, Goldfinch v. Auckland City Council,22 the Planning Tribunal considered evidence on potential losses in value of the properties of objectors to a proposal for the siting of a CPBS. The court concluded that the valuer's monetary assessments support and reflect the adverse effects of the CPBS. Further, it concluded that the effects are more than just minor as the CPBS stood upon the immediately neighboring property.

Literature Review

While experimental and epidemiological studies have focused on the adverse health effects of radiation from the use of cell phones and CPBSs, few studies have been conducted to ascertain the impact of CPBSs on property values. Further, little evidence of property value effects has been provided by the courts. Thus, the extent to which opposition from property owners affected by the siting of CPBSs is reflected in lower property values is not well known in New Zealand.

Two studies have been conducted to ascertain the adverse health and visual effects of CPBSs on property values. Telecom commissioned Knight Frank (NZ) Ltd to undertake a study in Auckland in 1998/

^{20.} NZRMA 289 (1996).

^{21.} NZRMA 66 (1999).

^{22.} NZRMA 97 (1996).

99 and commissioned Telfer Young (Canterbury) Ltd to undertake a similar study in Christchurch in 2001. Although the studies show that there is not a statistically significant effect on property prices where CPBSs are present,25 the research in both cases involves only limited sales data analysis. Further, no surveys of residents' perceptions were undertaken, and the studies did not examine media attention to the sites and the impact this may have on saleability of properties in close proximity to CPBSs. Finally, as the sponsoring party to the research was a telecommunication company it is questionable whether the results are completely free from bias. Hence, the present study aims to help fill the research void on this contentious topic in an objective way.

CPBSs are very similar structures to high-voltage overhead transmission lines (HVOTLs); therefore it is worthwhile to review the body of literature on the property values effects of HVOTLs. The only recently published study in New Zealand on HVOTLs effects is by Bond and Hopkins.²⁴ Their research consists of both a regression analysis of residential property transaction data and an opinion survey to determine the attitudes and reactions of property owners in the study area toward living close to HVOTLs and pylons.

The results of the sales analysis indicate that having a pylon close to a particular property is statistically significant and has a negative effect of 20% at 10-15 meters from the pylon, decreasing to 5% at 50 meters. This effect diminishes to a negligible amount after 100 meters. However, the presence of a transmission line in the case study area has a minimal effect and is not a statistically significant factor in the sale prices.

The attitudinal study results indicate that nearly two-thirds of the respondents have negative feelings about the HVOTLs. Proximity to HVOTLs determines the degree of negativity: respondents living closer to the HVOTLs expressed more negative feelings towards them than those living farther away. It appears, however, from a comparison of the results, that the negative feelings expressed are often not reflected in the prices paid for such properties.

There have been a number of HVOTLs studies carried out in the United States and Canada. A major review and analysis of the literature by Kroll and Priestley indicates that in about half the studies, HVOTLs have not affected property values and in the rest of the studies there is a loss in property value between 2%-10%.25 Kroll and Priestley are generally critical of most valuer-type studies because of the small number of properties included and the failure to use econometric techniques such as multiple regression analysis. They identify the Colwell study as one of the more careful and systematic analyses of residential impacts.26 That study, carried out in Illinois, finds that the strongest effect of HVOTLs is within the first 15 meters, but the effect dissipates quickly with distance, disappearing beyond 60 meters.

A Canadian study by Des Rosiers, using a sample of 507 single-family house sales, finds that severe visual encumbrance due to a direct view of either a pylon or lines exerts a significant, negative impact on property values; however location adjacent to a transmission corridor may increase value.27 This was particularly evident where the transmission corridor was on a well-wooded, 90-meter right-of-way. The proximity advantages include enlarged visual field and increased privacy. The decrease in value from the visual impact of the HVOTLs and pylons (on average between 5% and 10% of mean house value) tends to be cancelled out by the increase in value from proximity to the easement.

A study by Wolverton and Bottemiller²⁸ uses a paired-sale analysis of home sales in 1989-1992 to ascertain any difference in sale price between properties abutting rights-of-way of transmission lines (subjects) in Portland, Oregon; Vancouver, Washington; and Seattle, Washington; and those located in the same cities but not abutting transmission line rights-of-way (comparisons). Subjects sold during the study period were selected first; then a matching comparison was selected that was as similar to the subject as possible. The study results did not support a finding of a price effect from abutting an HVTL right-of-way. In their conclusion, the authors

^{23.} Mark Dunbar, Telfer Young research valuer, personal communication with Bond, 2002. The results of these studies have not been made publicly known. The study by Knight Frank of Auckland was conducted by Robert Albrecht.

^{24.} S. G. Bond and J. Hopkins, "The Impact of Transmission Lines on Residential Property Values: Results of a Case Study in a Suburb of Wellington, New Zealand," Pacific Rim Property Research Journal 6, no. 2 (2000): 52-60.

^{25.} C. Kroll and T. Priestley, "The Effects of Overhead Transmission Lines on Property Values: A Review and Analysis of the Literature," Edison Electric Institute (July 1992).

^{26.} Peter F. Colwell, "Power Lines and Land Value," Journal of Real Estate Research 5, no. 1 (Spring 1990): 117-127.

^{27.} François Des Rosiers, "Power Lines, Visual Encumbrance and House Values: A Microspatial Approach to Impact Measurement," Journal of Real Estate Research 23, no. 3 (2002): 275-301.

^{28.} Marvin L. Wolverton and Steven C. Bottemiller, "Further Analysis of Transmission Line Impact on Residential Property Values," The Appraisal Journal (July

warn that the results cannot and should not be generalized outside of the data. They explain that

limits on generalizations are a universal problem for real property sale data because analysis is constrained to properties that sell and sold properties are never a randomly drawn representative sample. Hence, generalizations must rely on the weight of evidence from numerous studies, samples, and locations.29

Thus, despite the varying results reported in the literature on property value effects from HVOTLs, each study adds to the growing body of evidence and knowledge on this (and similar) valuation issue(s). The study reported here is one such study.

Opinion Survey Research Objectives and Methodology

Research by Abelson;³⁰ Chalmers and Roehr;³¹ Kinnard, Geckler and Dickey;⁵² Bond;⁵⁵ and Flynn et al.,54 recommend the use of market sales analysis in tandem with opinion survey studies to measure the impact of environmental hazards on residential property values. The use of more than one approach provides the opportunity to compare the results from each and to derive a more informed conclusion than obtained from relying solely on one approach. Thus, the methods selected for this study include a public opinion survey and a hedonic house price approach (as proposed by Freeman⁵⁵ and Rosen⁵⁶). A comparison of the results from both of these techniques will reveal the extent to which the market reacts to cell phone towers.

Public Opinion Survey

An opinion survey was conducted to investigate the current perceptions of residents towards living near CPBSs and how this proximity might affect property values. Case study areas in the city of Christchurch were selected for this study. The study included residents in ten suburbs: five case study areas (within 300 meters of a cell phone tower) and five control areas (over 1 kilometer from the cell phone tower). The five case study suburbs were

matched with five control suburbs that had similar living environments (in socioeconomic terms) except for the presence of a CPBS.

The number of respondents to be surveyed (800) and the nature of the data to be gathered (perceptions/personal feelings towards CPBSs) governed the choice of a self-administered questionnaire as the most appropriate collection technique. Questionnaires were mailed to residents living in the case study and control areas.

A self-administered survey helps to avoid interviewer bias and to increase the chances of an honest reply where the respondent is not influenced by the presence of an interviewer. Also, mail surveys provide the time for respondents to reflect on the questions and answer these at their leisure, without feeling pressured by the time constraints of an interview. In this way, there is a better chance of a thoughtful and accurate reply.

The greatest limitation of mail surveys is that a low response rate is typical. Various techniques were used to help overcome this limitation, including careful questionnaire design; inclusion of a free-post return envelope; an accompanying letter ensuring anonymity; and reminder letters. An overall response rate of 46% was achieved for this study.

The questionnaire contained 43 individual response items. The first question acted as an identifier to determine whether the respondent was a homeowner or tenant. While responses from both groups were of interest, the former was of greater importance, as they are the group of purchasers/sellers that primarily influence the value of property. However, it was considered relevant to survey both groups as both are affected by proximity to a CPBS to much the same extent from an occupiers' perspective, i.e., they both may perceive risks associated with a CPBS. It was hypothesized that tenants, being lesspermanent residents, would perceive the effects in a similar way, but to a much lesser degree.

Other survey questions related to overall neighborhood environmental desirability; the timing of

^{29.} Ibid., 252.

^{30.} P. W. Abelson, "Property Prices and Amenity Values," Journal of Environmental Economics and Management 6 (1979): 11-28.

^{31.} James A. Chalmers and Scott Roehr, "Issues in the Valuation of Contaminated Property," The Appraisal Journal (January 1993): 28-41.

^{32.} W. N., Kinnard, M. B. Geckler, and S. A. Dickey, "Fear (as a Measure of Damages) Strikes Out: Two Case Studies Comparisons of Actual Market Behaviour with Opinion Survey Research" (paper presented at the Tenth Annual American Real Estate Society Conference, Santa Barbara, California, April 1994).

^{33.} S. G. Bond, "Do Market Perceptions Affect Market Prices? A Case of a Remediated Contaminated Site," in Real Estate Valuation Theory, ed. K. Wang and M. L. Wolverton, 285-321 (Boston: Kluwer Academic Publishers, 2002).

^{34.} James Flynn et al., "Survey Approach for Demonstrating Stigma Effects in Property Value Litigation," The Appraisal Journal (Winter 2004): 35–45.

^{35.} A. Myrick Freeman, The Benefits of Environmental Improvement: Theory and Practice (Baltimore: John Hopkins Press, 1979).

^{36.} Sherwin Rosen, "Hedonic Prices and Implicit Markets: Product Differentiation in Pure Competition," Journal of Political Economy 82, no. 1 (Jan/Feb 1974): 34-55.

the CPBS's construction and its proximity in relation to the respondent's home; the importance placed on the CPBS as a factor in relocation decisions and on the price/rent the respondent was prepared to pay for the house; how a CPBS might affect the price the respondent would be willing to pay for the property; and the degree of concern regarding the effects of CPBSs on health, stigma, aesthetics, and property values. The surveys were coded to identify the property address of the respondent. This enabled each respondent's property to be located on a map and to show this in relation to the cell site.

Eighty questionnaires⁵⁷ were distributed to each of the ten suburbs (five case study and five control areas) in Christchurch. Respondents were instructed to complete the survey and return it in the free-post, self-addressed envelope provided. The initial response rate was 31%. A month later, a further 575 questionnaires with reminder letters were sent out to residents who had not yet responded. A total response rate of 46% was achieved. Response rates from each suburb ranged from 33% (Linwood) to 61% (Bishopdale).

The questionnaire responses were coded and entered into a computerized database.⁵⁸ The analysis of responses included the calculation of means and percentage of responses to each question to allow for an overview of the response patterns in each area.

Case Study and Control Areas

The suburbs of Beckenham, Papanui, Upper Riccarton, Bishopdale, and St Albans were selected for the case study because there is at least one CPBS within each of these communities. Census data, providing demographic and socioeconomic characteristics of geographic areas, was used to select the control suburbs of Spreydon, Linwood, Bromley, Avonhead, and Ilam. 59 The control areas are located further away (over 1 kilometer) from the CPBS in their matched case study area. As well as matching demographic and socioeconomic characteristics, each suburb was selected based on its similarity to its matched case study area in terms of living environment and housing stock, distance to the central

business district, and geographic size; the only dissimilarity is that there are no CPBSs in the control areas. (See Appendix I for a location map.)

Demographic statistics show that Bromley and Ilam comprise a younger population (median age about 33), with Bishopdale and Upper Riccarton having an older population (median age about 40). The ethnic breakdown of each suburb indicates that Papanui and Spreydon have the highest proportion of Europeans (about 90%), Bromley has the highest proportion of both Maoris and Pacific Islanders (13.9% and 8.5% respectively), while Ilam, Avonhead, and Upper Riccarton have the highest proportion of Asians (16.1% to 18.5%).40

Median household and median family incomes (MHI and MFI) are highest in Ilam and Avonhead (MHI: \$34,751NZ, \$53,405NZ; MFI: \$51,530NZ, \$65,804NZ, respectively) and lowest in Linwood and Beckenham (MHI: \$22,275NZ, \$26,398NZ; MFI: \$29,673NZ, \$33,847NZ respectively).41 Residents of St Albans West have the highest levels of education (21.7% have a degree or a higher degree) followed by Upper Riccarton (18.7%), Ilam (16.7%), and Avonhead (16.2%). These same suburbs have the highest proportion of professionals by occupational class (20.3% to 27.3%). Residents of Bromley have the lowest education (40% have no qualification) and the lowest proportion of professionals (5.5%).⁴²

In summary, the socioeconomic data shows that Ilam is the more superior suburb, followed by Avonhead, Upper Riccarton, St Albans West, and Papanui. The lower socioeconomic areas are, in decreasing order, Spreydon, Bishopdale, Bromley, Beckenham, and Linwood.

Survey Results

A summary of the main findings from the survey is presented in Appendix II, and the survey results are discussed in the following.

Response Rates

Of the 800 questionnaires mailed to homeowners and tenants in the case study and control areas (400 to each group), 50% from the case study area and 41%

^{37.} Approved by the University of Auckland Human Subjects Ethics Committee (reference 2002/185).

^{38.} The computer program SPSS was selected as the appropriate analytical tool for processing the data.

^{39.} The census is conducted in New Zealand every five years, and the data used to define the control areas is from the latest census conducted in 2001. see Christchurch City Area Unit Profile, 2001 at http://www.ccc.govt.nz/Census/ChristchurchCityAreaUnitProfile.xls.

^{40.} Christchurch City Area Unit Profile statistics.

^{41. \$1}NZ = \$0.65US, thus, \$34,751NZ = \$22,588US.

^{42.} The median house price for Christchurch city in August 2003 was \$185,000NZ/\$120,000US (New Zealand national median house price at this time was \$215,000NZ/\$140,000US), http://www.reinz.co.nz/files/HousingFacts-Sample-Pg1-5.pdf (accessed March 17, 2004). Median house prices in each individual suburb could not be obtained as the median sales data from the Real Estate Institute of NZ (REINZ) contains more than one suburb in each location grouping.

from the control area were completed and returned. Over three-quarters (78.5%) of the case study respondents were homeowners compared to 94% in the control area.

Desirability of the Suburb as a Place to Live

More than half (58.3%) the case study respondents have lived in their suburb for more than five years (compared to 65% in the control group) and a quarter (25%) have lived in their suburb between 1 and 4 years (compared to 28% in the control group).

Around two-thirds (65% of the case study respondents and 68% of the control group respondents) rated their neighborhoods as either above average or superior as a place to live when compared with other similar named suburbs. The reasons given for this include close proximity to amenities (shops, library, medical facilities, public transport, and recreational facilities) and good schools.

Reasons given for rating the case study neighborhoods inferior to other similar neighborhoods include lower house prices, older homes, more student housing and lower-income residents. The reasons given by the control group respondents for an inferior rating include distance from the central business district (Avonhead); smell from the sewerage oxidation ponds and composting ponds (Bromley); and lower socioeconomic area and noise from the airport (Linwood).

Feelings About a CPBS as an Element of the Neighborhood

In the case study areas, a CPBS had already been constructed when only 39% of the respondents bought their houses or began renting in the neighborhood. Some responded that they were not notified that the CPBS was to be built, that they had no opportunity to object to it, and that they felt they should have been consulted about its construction. For the respondents who said that proximity to the tower was of concern to them, the most common reasons given for this were the impact of the CPBS on health, aesthetics, and property values. Nearly three-quarters (74%) of the respondents said they would have gone ahead with the purchase or rental of their property anyway if they had known that the CPBS was to be constructed.

In the control areas nearly three-quarters (72%) of the respondents indicated they would be opposed to construction of a CPBS nearby. The location of a CPBS would be taken into account by 83% of respondents if they were to consider moving. As with the case study respondents, the control group respondents who were concerned about proximity to a CPBS were most often concerned about the effects of CPBSs on health, aesthetics, and property values.

Impact on Decision to Purchase or Rent

In the case study areas, the tower was visible from the houses of 46% of the respondents, yet two-thirds (66%) of these said it was barely noticeable, and one-quarter said it mildly obstructed their view. When asked in what way the CPBS impacts the enjoyment of living in their home, 37% responded that its impact was related to health concerns, 21% said it impacted neighborhood aesthetics, 20% said it impacted property value, and 12% said it impacted the view from their property.

When asked about the impact that the CPBS had on the price/rent they were prepared to pay for their property, over half the case study respondents (53.1%) said that the tower was not constructed at the time of purchase/rental, and 51.4% of the respondents said the proximity to the CPBS did not affect the price they were prepared to pay for the property. Nearly 3% said they were prepared to pay a little less, 2% said they were prepared to pay a little more. For the control group respondents, 45% of the respondents would pay substantially less for a property if a CPBS were located nearby, over one-third (38%) were prepared to pay just a little less for such a property, and 17% responded that a CPBS would not influence the price they would pay.

Only 10% of the case study respondents gave an indication of the impact that the CPBS had on the price/rent they were prepared to pay for the property; one-third of these felt it would decrease price/ rent by 1% to 9%. For the control group, over onethird (38%) of the respondents felt that a CPBS would decrease price/rent by more than 20%, and a similar number (36%) said they would be prepared to pay 10% to 19% less for property located near a CPBS. The responses are outlined in Table 1.

Table 1 Impact of a CPBS on Purchase/Rental **Price Decision**

\$	Percent of Case tudy Respondents (Control Group		
Price/Rent Effect	Responses)		
20% more	5% (3%)		
10-19% more	10% (2%)		
1-9% more	14% (2%)		
1-9% less	33% (19%)		
10-19% less	24% (36%)		
20% or greater reduction in price/ren	nt 14% (38%)		

Interestingly, it would seem that those living farther away from the CPBSs (the control group) are far more concerned about proximity to CPBSs than those living near CPBSs (the case study group); they indicated that a CPBS would have a greater price/ rent effect. The possible explanations for this are discussed in the survey results section.

Concerns About Proximity to the CPBS

Most case study respondents were not worried about the effects of proximity to a CPBS related to health (50%), stigma (55%), future property value (61%), or aesthetics (63%). About one-quarter to one-third of these respondents were somewhat worried about the impact of proximity to a CPBS on health (38%), stigma (34%), future property value (25%), or aesthetics (25%). From the list of issues, respondents were most worried about future property value, but only 13.5% of the respondents responded this way.

Here again, control group respondents were much more concerned about the effects of proximity to a CPBS than their case study counterparts. Of the possible concerns about CPBSs on which respondents were asked to comment, control group respondents were most worried about the negative effects on future property values and aesthetics. Nearly half the respondents were worried a lot about these issues. Similar responses were recorded for the possibility of harmful health effects in the future from CPBSs (42% were worried a lot about this) and stigma associated with houses near CPBSs (34% were worried a lot). The responses regarding concerns about living near a CPBS are shown in Table 2.

In both the case study and control areas, the issue of greatest concern for respondents was the impact of proximity to CPBSs on future property values. The main concerns related to CPBSs were the unknown potential health effects, the possible socioeconomic implications of the siting of CPBSs, and how CPBSs affect property values. There also were concerns that the city council was not notifying the public about the possible construction of CPBSs.

Discussion of the Survey Results

The results were mixed, with responses from residents ranging from having no concerns to being very concerned about proximity to a CPBS. In general, those people living in areas farther from CPBSs were much more concerned about issues related to proximity to CPBSs than residents who lived near CPBSs.

Over 40% of the control group respondents were worried a lot about future health risks, aesthetics, and future property values compared with the case study areas, where only 13% of the respondents were worried a lot about these issues. However, in both the case study and control areas, the impact of proximity to CPBSs on future property values is the issue of greatest concern for respondents. If purchasing or renting a property near a CPBS, over a third (38%) of the control group respondents said a CPBS would reduce the price of their property by more than 20%. The perceptions of the case study respondents were again less negative, with a third saying they would reduce the price by only 1%-9%, and 24% saying they would reduce the price by 10%-19%.

The lack of concern shown by the case study respondents may be due to the CPBSs being either not visible or only barely visible from their homes. The CPBSs may be far enough away from respondents' properties (as was indicated by many respondents, particularly in St Albans West, Upper Riccarton, and Bishopdale) or hidden by trees and consequently not perceived as affecting the properties. The results may have been quite different had the CPBS being more visually prominent.

Alternatively, the apparent lower sensitivity to CPBSs of case study residents compared to the control group residents may be due to cognitive dissonance reduction. In this case, respondents may be unwilling to admit, due to the large amounts of money already paid, that they may have made a poor purchase or rental decision in buying or renting property located near a CPBS. Similarly, the homeowners may be unwilling to admit there are concerns about CPBSs when the CPBSs were built

Table 2 Concerns about Living Near a CPBS*

Concern	Does not worry me	Worries me somewhat	Worries me a lot
Possibility of harmful health effects	50% (20%)	38% (38%)	12% (42%)
Stigma effect	55% (21%)	34% (45%)	12% (34%)
Effect on future property values Aesthetics	61% (15%)	25% (37%)	13% (47%)
	63% (18%)	25% (37%)	11% (45%)

^{*} Percent of case study respondents having that concern (control group respondents). All numbers are rounded.

after they had purchased their homes, because to do so might have a negative impact on property values.

Regardless of the reasons for the difference in responses from the case study and control groups, the overall results show that residents perceive CPBSs negatively. In both the case study and control areas, the impact of proximity to CPBSs on future property values was the issue of greatest concern for respondents. Overall, respondents felt that proximity to a CPBS would reduce value by from 10% to over 20%. The second part of the study outlined below, involving an econometric analysis of Christchurch property sales transaction data, helps to confirm these results.

Respondents' comments added at the end of the survey indicate that residents have ongoing concerns about CPBSs. Although some people accepted the need for CPBSs, they said that they did not want them built in their back yard, or they preferred that they be disguised to blend better with their environment.

Market Study Research Objectives and Methodology

A market study was undertaken to test the hypothesis that in suburbs where there is a CPBS it will be possible to observe discounts to the selling price of homes located near these structures. Such discounts would be observed where buyers of proximate homes view the CPBSs in negative terms due to a perceived risk of adverse effects on health, aesthetics, and property value.

The literature dealing specifically with the measurement of the impact of environmental hazards on residential sale prices (including proximity to transmission lines, landfill sites, and ground water contamination) indicates the popularity of hedonic pricing models, as introduced by Court⁴⁵ and later Griliches,44 and further developed by Freeman45 and Rosen.46 The more recent studies, including those by Dotzour;47 Simons and Sementelli;48 and Reichert, 49 focus on proximity to an environmental hazard and demonstrate that this reduces residential house prices by varying amounts depending on the distance from the hazard.⁵⁰ However, there are no known published studies that use hedonic housing models to measure the impact of proximity to a CPBS on residential property values.

As in the previous residential house price studies, the standard hedonic methodology was used here to quantify the impact of a CPBS on sale prices of homes located near a CPBS. The results from this study in tandem with the opinion survey results will help test the hypothesis that proximity to a CPBS has a negative impact on property value and will reveal the extent to which the market reacts to CPBSs.

Model Specification

A hedonic price model is constructed by treating the price of a property as a function of its utility-bearing attributes. Independent variables used in the model to account for the property attributes are limited to those available in the data set and known, based on other well-tested models reported in the literature and from valuation theory, to be related to property price. The basic model used to analyze the impact on sale price of a house located near a CPBS, is as follows:

$$P_i = f(X_{t,i}, X_{2,i} \dots \dots X_{n,i})$$

where:

 P_i = property price at the *i* th location $X_{{\scriptscriptstyle I},{\scriptscriptstyle I}} \ldots X_{{\scriptscriptstyle n},{\scriptscriptstyle I}} = {\rm individual\ characteristics\ of\ each}$ sold property (e.g., land area, age of house, floor area, sale date, construction materials, house condition, CPBS construction date, etc.)

The more recent hedonic pricing studies that demonstrate the effects of proximity to an environmental hazard use different functional forms to represent the relationship between price and various property characteristics.⁵¹ In hedonic housing models the linear and log-linear models are most popular. The linear model implies constant partial effects between house prices and housing characteristics, while the log-linear model allows for nonlinear price effects and is shown in the following equation:

^{43.} A. T. Court, "Hedonic Price Indexes with Automotive Examples," in The Dynamics of Automobile Demand (New York: General Motors, 1939).

^{44.} Zvi Griliches, ed. Price Indexes and Quality Change (Cambridge, Mass.: Harvard University Press, 1971).

^{45.} Freeman.

^{46.} Rosen.

^{47.} Mark Dotzour, "Groundwater Contamination and Residential Property Values," The Appraisal Journal (July 1997): 279-285.

^{48.} Robert A. Simons and Arthur Sementelli, "Liquidity Loss and Delayed Transactions with Leaking Underground Storage Tanks," The Appraisal Journal (July 1997): 255-260.

^{49.} Alan K. Reichert, "Impact of a Toxic Waste Superfund Site on Property Values," The Appraisal Journal (October 1997): 381-392.

^{50.} Only Dotzour found no significant impact of the discovery of contaminated groundwater on residential house prices. This was likely due to the nonhazardous nature of the contamination where the groundwater was not used for drinking purposes.

^{51.} See for example L. Dale et al., "Do Property Values Rebound from Environmental Stigmas? Evidence from Dallas," Land Economics 75, no. 2 (May 1999); 311-326; Dotzour; Simons and Sementelli; and Reichert.

$$\begin{split} \ln P_i &= b_o + b_i \times X_{t,i} + b_2 \times X_{2i} + b_3 \times X_{3i} \\ & \dots \dots + b_n \times X_{n+1} + a_o \times D_o + \\ & \dots \dots + a_n \times D_n + e_0 \end{split}$$

where:

 lnP_i = the natural logarithm of sale price

 $b_0 =$ the intercept

 $b_1 \dots b_n$; $a_0 \dots a_m =$ the model parameters to be estimated, i.e., the implicit unit prices for increments in the property characteristics

 $X_1 \dots X_n =$ the continuous characteristics, such as land area

 $D_{\scriptscriptstyle n} \dots D_{\scriptscriptstyle m} =$ the categorical (dummy) variables, such as whether the sale occurred before (0) or after (1) the CPBS was built

Sometimes the natural logarithm of land area and floor area is also used. The parameters are estimated by regressing property sales on the property characteristics and are interpreted as the households' implicit valuations of different property attributes. The null hypothesis states that the effect of being located near a CPBS does not explain any variation in property sale prices.

The Data

Part of the process for selecting appropriate case study areas was identifying areas where there had been a sufficient number of property sales to provide statistically reliable and valid results. Sales were required for the period before and after the CPBS had been built in order to study the impact of the CPBS on the surrounding properties' sale prices.

Further, due to the multitude of factors that combine to determine a neighborhood's character, such as proximity to the central business district, standard of schooling, recreational facilities provided, standard of housing, proximity to amenities, and the difficulty in allowing for these separately, sales located in areas with comparable neighborhood characteristics were preferred.

Four of the suburbs in the survey case study met the criteria for the market study: St Albans, Beckenham, Papanui, and Bishopdale. No sales data was available for Upper Riccarton after the CPBS was built in this suburb, hence this suburb was not included in the market analysis study. As each CPBS was built at a different date, the sales from each suburb were separately analyzed. The uniformity of locational and neighborhood characteristics in each of these suburbs allows the analysis to be simplified and to focus on the properties' physical attributes. The relative homogeneity of housing, locational, and neighborhood attributes was verified through field inspections.

The dependent variable is the property sale price. The data set includes 4283 property sales that occurred between 1986 and 2002 (approximately 1000 sales per suburb).52

The independent data set was limited to those variables that correspond to property attributes known and suspected to influence price. These variables are floor area (m²); land area (ha); age of the house (the year the house was built); tower (a dummy variable indicating whether the sale occurred before or after the CPBS was built); sale date (month and year); time of sale based on the number of quarters before or after the CPBS was built (to help control for movements in house prices over time); category of residential property (stand-alone dwelling, dwelling converted into flats, ownership unit, etc); quality of the principal structure (as assessed by an appraiser); and roof and wall materials. The number of bedrooms was not available in the data set, but would not have been included as an independent variable since the number of bedrooms is highly correlated with floor area.

Since the GIS coordinates of properties for the initial analysis were not available, street name was included as an independent variable instead. To a limited extent, street name helped to control for the proximity effects of a CPBS. It was suspected that houses on a street close to a CPBS may, on average, sell for less than houses on a street farther away from the CPBS.

While views, particularly water views, have been shown in previous empirical studies to be an important attribute affecting sale price, in the present study the flat contour of the landscape where the homes are located, together with the suburban nature of the environment surrounding these, precluded any significant views. Thus, views were not included in the analysis. Further, due to the large number of sales included in the analysis, inspections of each individual property were not made to determine the view, if any, of a CPBS from each house. It was felt that it is not merely the view that may impact on price, but also proximity to a CPBS due to the potential effect this may have on health, cell phone coverage, and neighborhood aes-

^{52.} These sales were obtained from Headway Systems Ltd, a data distribution and system development company. Headway is the major supplier of property market sales information to New Zealand's valuation profession; it is jointly owned by the NZ Institute of Valuers (NZIV) and PT Investments, a consortium of 28 shareholders from within the property industry.

thetics. Hence, view of a CPBS was not included as an independent variable. The variable descriptions are listed in Table 3. Variable codes are shown in Appendix III and basic descriptive statistics for selected quantitative variables are shown in Appendix IV.

Table 3 Variable Descriptions

Variable*	Definition
SLNETX	Sale price of the house (NZ\$)
SITSTX	Street name
CATGYX2	Category of dwelling: D, E, etc.†
CATGYX4	Quality of the structure: A, B, C [†]
TIMESOLD.Q	Using the time the cell phone tower was
	built as a baseline quarter, the number of
	quarters before (-) and after (+) it was built
AGE	Year the house was built
LANDAX	Land area (ha)
MATFAX	Total floor area (m²)
WALLCNX	Wall construction: W, B, C, etc. †
ROOFCNX	Roof construction: W, B, C, etc. †
TOWER	An indicator variable: 0 if before the cell phone tower was built, or 1 after it was built

^{*} Sale price is the dependent variable.

Market Study Results

An econometric analysis of Christchurch property transaction data helped to confirm the opinion survey results. In the analysis of selected suburbs, the sales data from sales that occurred before a CPBS was built was compared to sales data from after a CPBS was built to determine any variance in price, after accounting for all the relevant independent variables.

Empirical Results

The model of choice is one that best represents the relationships between the variables and has a small variance and unbiased parameters. Various models were tested and the results are described in the next section. The following statistics were used to help select the most appropriate model: the adjusted coefficient of determination (adjusted R^2); the standard error of the regression equation; the AIC⁵³ and BIC⁵⁴ statistics; and t-test of significance of the coefficients and F-statistic.

Significance of Variables and the Equation: St Albans

As hedonic prices can vary significantly across different functional forms, various commonly used functional forms were examined to determine the model specification that best describes the relationship between price and the independent variables. Also, to test the belief that the relationship between Price and Land Area is not a linear function of Price, the variable LANDAX (land area) was transformed to reflect the correct relationship. Several transformations were tested including: linear of SLNETX (sale price) and log of LANDAX; log of SLNETX and linear of LANDAX; and log of SLNETX and log of LANDAX. All dummy variables remained in their linear form in each model.

It was found that the best result was obtained from using the log of SLNETX and log of LANDAX, and the linear form of all the dummy variables. Taking the log of an independent variable implies diminishing marginal benefits. For example, an extra 50 square meters of land area on a 550-square-meter site would be worth less than the previous 50 square meters. The log-log model shows the percent change in price for a one-percent change in the independent variable, while all other independent variables are held constant (as explained in Hill, Griffiths, and Judge).55

In the semilogarithmic equation the interpretation of the dummy variable coefficients involves the use of the formula: $100(e^{b_n} - 1)$, where b_n is the dummy variable coefficient.56 This formula derives the percentage effect on price of the presence of the factor represented by the dummy variable and is advocated over the alternative, and commonly misused, formula of 100. (b.). The resulting model included all the available variables as follows:

$$\begin{split} \log(SLNETX) &= \alpha + \beta_1 \times TOWER + \beta_2 \times SITSTX \\ &+ \beta_5 \times CATGYX2 + \beta_4 \times CATGYX4 \\ &+ \beta_5 \times TIMESOLD \times Q + \beta_6 \times AGE \\ &+ \beta_7 \times \log(LANDAX) \\ &+ \beta_8 \times MATFAX \\ &+ \beta_9 \times WALLCNX \\ &+ \beta_{10} \times ROOFCNX \end{split}$$

[†] See Appendix III for explanation of variable codes.

^{53.} AIC is the Akaike Information Criterion, and is a "goodness of fit" measure involving the standard error of the regression adjusted by a penalty factor. The model selected is the one that minimizes this criterion (Microsoft SPSSPC Online Guide, 1997).

^{54.} The BIC is the Bayesian Information Criterion. Like the AIC, BIC takes into account both how well the model fits the observed data, and the number of parameters used in the model. The model selected is the one that adequately describes the series and has the minimum SBC. The SBC is based on Bayesian (maximum-likelihood) considerations. (Microsoft SPSSPC Online Guide, 1997).

^{55.} R. Carter Hill, William E. Griffiths, and George G. Judge, Undergraduate Econometrics (New York: John Wiley & Sons, 1997).

^{56.} See Robert Halvorsen and Raymond Palmquist, "The Interpretation of Dummy Variables in Semi-Logarithmic Equations," American Economic Review 70, no. 3 (1980): 474-475.

From the regression output, the variables ROOFCNX and WALLCNX were found to be insignificant so these were removed from the model and the regression was rerun. The table in Appendix V summarizes these results. The F-statistic (123) shows that the estimated relationship in the model is statistically significant at the 95% confidence level and that at least one of the coefficients of the independent variables within the model is not zero.

Table 4 summarizes the model selection test statistics. Based on the AIC and BIC, the regression that excludes the variables ROOFCNX and WALLCNX is superior to the regression that includes them (AIC and BIC are minimized). For this reason, the model excluding these variables was selected for analysis, and it is discussed next.

Table 4 Test Statistics — St Albans

	Adjusted R ²	AIC	BIC
Full Model	0.82	-118.38	36.55
Sub Model	0.82	-121.64	5.95

Tests for normality, heteroskedasticity, and multicollinearity generally indicated that the model was adequately specified and that the data were not severely ill conditioned (heteroskedasticity and multicollinearity were diminished when the data were transformed).

The coefficient of determination (R^2) indicates that approximately 82% of the variation in sale price is explained by the variation in the independent variable set. All variable coefficients had the expected signs,⁵⁷ except for *TOWER*, which was positive. The positive coefficient for TOWER shows that, when all the other variables are held constant, after the installation of a CPBS in St Albans, the price of a house would increase by $e^{0.1155} \approx 1.12$ (12%). A possible explanation is that cell phone technology was quite new at the time (1994), and as there had been little in the media about possible adverse health effects from CPBSs, people may have perceived it as a benefit as they were likely to get better cell phone coverage.

The most significant variables were TIMESOLD.Q (the quarter in which the sale occurred before or after the CPBS was built), log(LANDAX) (log of land area), and MATFAX (total floor area) and all have a positive influence on price. The positive TIMESOLD.Q indicates that the market was increasing over time since the CPBS was built (1994), but only to a limited extent (1.38%). The positive log of land area and total floor area shows that prices increase with increasing size.

The regression coefficient on log(LANDAX) is 0.3285, which indicates that, on average, a 10% increase in LANDAX will generate a 3.285% increase in price. The positive coefficient for MATFAX indicates that, when all the other variables are held constant, for each additional m2 the price would increase by $e^{0.0022314} \approx 1.0022314$ (0.22% increase).

Significance of Variables and the Equation: **Papanui**

The same functional form used for St Albans was used for Papanui. From the regression output, the variable CATGYX2 was found to be insignificant so it was removed from the model and the regression was rerun; Appendix VI summarizes the results. The F-statistic (152) shows that the estimated relationship in the model is statistically significant at the 95% confidence level and that at least one of the coefficients of the independent variables within the model is not zero.

Table 5 summarizes the model selection test statistics. Based on the AIC and BIC, the regression that excludes the variable CATGYX2 is superior to the regression that includes it (AIC and BIC are minimized). For this reason, the model excluding this variable was selected for analysis, and is discussed next.

Table 5 Test Statistics — Papanui

	Adjusted R ²	AIC	BIC
Full Model	0.87	-509.91	-371.99
Sub Model	0.87	-510.57	-381.56

The coefficient of determination (R^2) indicates that approximately 87% of the variation in sale price is explained by the variation in the independent variable set. This would be considered high in comparison with the amount of explanation obtained in similar hedonic house studies reported in the literature.⁵⁸ All variable coefficients had the expected signs.

The most significant variables were TIMESOLD.Q, MATFAX (total floor area), and *TOWER.* The former two have a positive influence on price. The positive TIMESOLD.Q indicates that the

^{57.} Note that the variable AGE is positive as this variable indicates the year the house was built; therefore, the higher the year, the younger the home. Newer houses have less wear and tear than older homes and sell, on average, for more than older homes.

^{58.} For example, Reichert obtained an adjusted R2 of 84%; Simons and Sementelli, 78%; Abelson, 68%; Dotzour, 56%-61%.

market was increasing over time since the CPBS was built (2000), but only by 1.4% per quarter. The positive coefficient for MATFAX indicates that, when all the other variables are held constant, the price would increase by $e^{0.0042576} \approx 1.00427$ (0.43%), with increasing size. The negative coefficient for TOWER shows that, when all the other variables are held constant, after the installation of a CPBS in Papanui, the price of a house would decrease by $e^{-0.2340} \approx 0.79$ (21% decrease).

Significance of Variables and the Equation: **Beckenham**

The same functional form used for Papanui and St Albans was used for Beckenham. From the regression output, the variable ROOFCNX was found to be insignificant so it was removed from the model and the regression was rerun; Appendix VII summarizes these results. The F-statistic (214) shows that the estimated relationship in the model is statistically significant at the 95% confidence level and that at least one of the coefficients of the independent variables within the model is not zero.

Table 6 summarizes the model selection test statistics. Based on the AIC and BIC, the regression that excludes the variable *ROOFCNX* is superior to the regression that includes it (AIC and BIC are minimized). For this reason, the model excluding this variable was selected for analysis.

Table 6 Test Statistics — Beckenham

	Adjusted R ²	AIC	BIC
Full Model	0.89	-819.00	-641.39
Sub Model	0.89	-818.66	-650.66

The coefficient of determination (R^2) indicates that approximately 89% of the variation in sale price is explained by the variation in the independent variable set. Again, as with the model for Papanui this amount of explanation would be considered high.

The most significant variables were TIMESOLD.Q, MATFAX, and TOWER. The former two have a positive influence on price. The positive TIMESOLD. Q indicates that the market was increasing over time since the CPBS was built in 2000, but only by 1.91% per quarter. The positive coefficient for MATFAX indicates that, when all the other variables are held constant, the price would increase by $e^{0.0042054}$ ≈ 1.00421 (0.42%), with increasing size. The negative coefficient for TOWER shows that, when all the other variables are held constant, after the installation of a CPBS in Beckenham, the price of a house would decrease by $e^{-0.25019} \approx 0.793$ (20.7% decrease).

Significance of Variables and the Equation: **Bishopdale**

The same functional form used for the other three suburbs was used for Bishopdale. From the regression output, the variables ROOFCNX and CATGYX were found to be insignificant so these were removed from the model and the regression was rerun; Appendix VIII summarizes these results. The F-statistic (122) shows that the estimated relationship in the model is statistically significant at the 95% confidence level and that at least one of the coefficients of the independent variables within the model is not zero.

Table 7 Test Statistics — Bishopdale

	Adjusted R ²	AIC	BIC
Full Model	0.79	-927.48	-775.71
Sub Model	0.79	-929.32	-796.52

Table 7 summarizes the model selection test statistics. Based on the AIC and BIC, the regression that excludes the variable ROOFCNX and CATGYX is superior to the regression that includes it (AIC and BIC are minimized). For this reason, the model excluding these variables was selected for analysis.

Again, the most significant variables were TIMESOLD. Q and MATFAX; the variable of interest, TOWER, was not a significant variable in the model so it is not discussed further. The former two variables have a positive influence on price. The positive TIMESOLD. Q indicates that the market was increasing over time since the CPBS was built in 1994, but only at 0.98% per quarter. The positive coefficient for MATFAX indicates that, when all the other variables are held constant, the price would increase by e0.0059665 \approx 1.004 (0.40%), with increasing size.

Summary of Results

The above analysis shows that the most significant variables and their impact on price were similar between suburbs. This indicates the relative stability of the coefficients between each model. Interestingly, the impact of TOWER on price (a decrease of between 20.7% and 21%) was very similar in the two suburbs where the towers were built in the year 2000. This may be due to the much greater media publicity given to CPBSs after the two legal cases in Christchurch (McIntryre and Shirley Primary School in 1996 and 1999, respectively). The two suburbs where TOWER was either insignificant or increased prices by around 12%, were suburbs where towers had been built in 1994, prior to the media publicity.

Limitations of the Research

The main limitation affecting this survey was in the selection of the case study areas. Specifically, the areas selected had CPBSs that were not highly visible to residents. If more-visible CPBSs had been selected, the results may have been quite different. Thus, caution must be used in making generalizations from this study or applying the results directly to other similar studies or valuation assignments. Factors that could affect results are the distance of homes from the CPBS, the style and appearance of the CPBS, how visible the CPBS is to residents, the type of home (single family, multifamily, rental, etc.), and the socioeconomic make-up of the resident population.

To help address the proximity factor, a study is in progress examining the role of distance to the CPBSs and price effects; that study uses GIS analysis to determine the impact this has on residential property prices. It is expected that this will provide a more precise estimation of the impact of a CPBS on price.

It must be kept in mind that these results are the product of only one case study carried out in a specific area (Christchurch) at a specific time (2003). The above results indicate that value effects from CPBSs may vary over time as market participants' perceptions change. Perceptions toward CPBSs can change either positively or negatively over time. For example, as the World Health Organization's ten-year study of the health effects from CPBSs is completed and becomes available, consumers' attitudes may become more positive or negative depending on the outcome of that study. Consequently, studies of the price effects of CPBSs need to be conducted over time.

Areas for Further Study

This research has focused on residents' perceptions of negative effects from proximity to CPBSs and how these impact property values, rather than the scientific or technological estimates of these risks. The technologists' objective view of risk is that risk is measurable solely in terms of probabilities and severity of consequences, whereas the public, while taking experts' assessments into account, view risk more subjectively, based on other factors. Further, the results of scientific studies about the health effects of radio frequency and microwave radiation

from CPBSs are not consistent. Residents' perceptions and assessments of risk vary according to a wide range of psychological, social, institutional, and cultural processes, and this may explain why their assessments differ from those of the experts.

Given the public concerns about the potential risks arising from being located nearby a CPBS, it is important for future studies to focus more attention on the kinds of risks the public associates with CPBSs and the level of risk perceived. How far away from the CPBS do people feel they have to be to be safe? What CPBS design, size, and surrounding landscape would help CPBSs to be more publicly acceptable? What social, economic, educational, and other demographic variables influence how people perceive the risks from CPBSs? Do residents that are heavy users of cell phones have a different perception of CPBSs than residents who make little use of this technology? Are these perceived risks reflected in property values and to what extent? Do these perceived risks vary over time and to what degree?

Answers to these questions, if shared among researchers and made public, could lead to the development of a global database to assist appraisers in determining the perceived level of risk associated with CPBSs and other similar structures. 59 Knowledge of the extent that these risks are incorporated into property prices and how they vary over time will lead to more accurate value assessments of properties in close proximity to CPBSs and other similar structures.

Summary and Conclusions

Focusing on four case study neighborhoods in Christchurch, New Zealand, this article presents the results from both an opinion survey and market sales analysis undertaken in 2003 to determine residents' perceptions towards living near a CPBS and how this may impact property prices. From the results, it appears that people who live close to CPBSs perceive the sites less negatively than those who live farther away.

The issue of greatest concern for survey respondents in both the case study and control areas is the impact of proximity to CPBSs on future property values. Overall, respondents would pay from 10%-19% less to over 20% less for a property if it were in close proximity to a CPBS.

The opinion survey results were generally confirmed by the market sales analysis using a hedonic house price approach. The results of the sales analysis show prices of properties were reduced by around 21% after a CPBS was built in the neighborhood. How-

^{59.} For example, high-voltage overhead transmission lines.

ever, this result varies between neighborhoods, with a positive impact on price being recorded in one neighborhood, possibly due to the CPBS being built in that suburb before any adverse media publicity about CPBSs appeared in the local Christchurch press.

Research to date reports no clearly established health effects from radio frequency emissions of CPBSs operated at or below the current safety standards, yet recent media reports indicate that people still perceive that CPBSs have harmful effects. Thus, whether or not CPBSs are proven to be free from health risks is only relevant to the extent that buyers of properties near CPBSs perceive this to be true. Even buyers who believe that there are no adverse health effects from CPBSs, knowing that other potential buyers might think the reverse, will probably seek a price discount for a property located near a CPBS.

The comments of survey participants indicate the ongoing concerns that residents have about CPBSs. There is the need to increase the public's understanding of how radio frequency transmitting facilities operate and the strict exposure-limit standards imposed on the telecommunication industry. As more information is discovered that refutes concerns regarding adverse health effects from CPBSs, and as information about the NZ safety standards are made more publicly available, the perception of risk may gradually change, eliminating the discounts for neighboring properties.

Sandy Bond, PhD, MBS, ANZIV, SNZPI, is a senior member of the New Zealand Property Institute (NZPI), a director on the Board of the International Real Estate Society, and a past president of the Pacific Rim Real Estate Society (PRRES). She was awarded the PRRES Achievement Award in 2002 and the NZ Institute of Valuers' Presidential Citation in 1997. Before commencing her academic career in 1991, she worked as an appraiser in both New Zealand and London, UK.

Contact: dr_sandybond@yahoo.com

Ko-Kang (Kevin) Wang is a recent graduate from the University of Auckland and has been a tutor in the Statistics Department at the university. Wang has recently commenced doctoral studies in Australia.

Contact: Kevin.Wang@anu.edu.au

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Additional Reading

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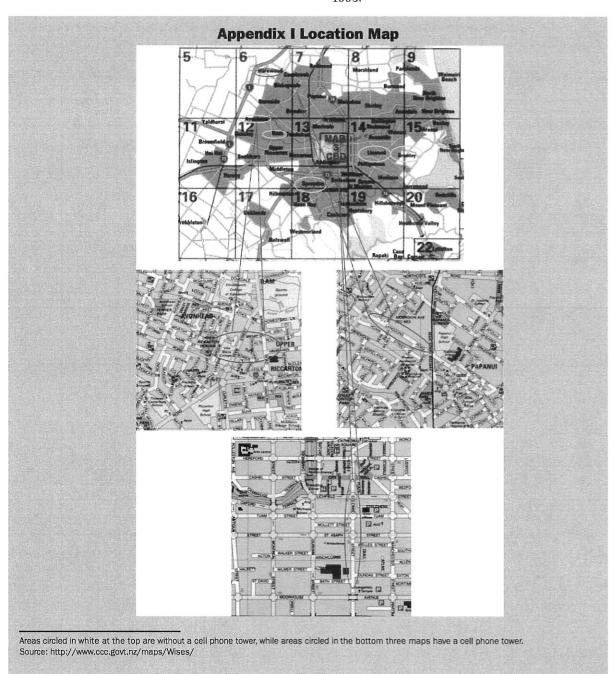
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Variable San Control of the Control	Responose	Valid Percent (%)		
		Case Study	Control	
Occupancy	Homeowner	78.5	94.2	
	Tenant	21.5	5.8	
How long have you lived there?	Less than 6 months	8.0	2.6	
	6 months–1 year	8.6	4.5	
	1–4 years	25.1 58.3	27.7	
	More than 5 years		65.2	
How would you rate the desirability of your neighborhood?	Superior	27.4	30.9	
	Above Average	37.4 28.5	36.8 27.0	
	Average Below Average	5.6	4.6	
	Inferior	1.1	0.7	
No. 11 be a second to a second of a sell about to second of		4.4		
Would you be opposed to construction of a cell phone tower nearby?	Yes No		72.1 27.9	
		20.0	21.5	
When you purchased/began renting was the cell phone	Yes	39.3		
tower already constructed?	No	60.7		
Was the proximity of the cell phone tower a concern to you?	Yes	20.0		
	No	80.0		
Would you have gone ahead with rental/purchase if you had known a	Yes No	73.9 26.1		
cell phone site was to be constructed?		20.1	00.4	
Is location of a cell phone tower a factor you would consider	Yes No		83.4 16.6	
when moving?		45.7	10.0	
Is the cell phone tower visible from your house?	Yes No	45.7 54.3		
If yes, how much does it impact on your view?	Very obstructive	9.6		
if yes, now much uses it impact on your view:	Mildly obstructive	24.5		
	Barely noticeable	66.0		
In what way does it impact on the enjoyment of living in your house?	Views	11.8		
in what hay about it impact on the onjoyment or iming in your reason.	Aesthetics	20.6		
	Health concerns	36.8		
	Change in property value	19.9		
	Other	11.0		
Effect a nearby cell phone tower would have on the price/rent you	Tower wasn't constructed	53.1		
would pay for the property	Pay substantially more	0.0	0.0	
	Pay a little more	2.3	0.0	
	Pay a little less	2.8	37.6	
	Pay substantially less	0.6	45.4	
	Not influence price	51.4	17.0	
% Effect a nearby cell phone tower would have on the price/rent you	20% higher or more	5	3.2	
would pay for the property	10–19% more	10	1.6	
	1–9% more	14	2.4	
	1–9% less	33	19.2	
	10–19% less	24	36.0	
	20% or a greater reduction	14	37.6	
Concern about the possibility of harmful health effects in the future	Does not worry me	50.3	19.9	
	Worries me somewhat	38.0	38.4	
	Worries me a lot	11.7	41.7	
Concern about the stigma associated with houses near the cell	Does not worry me	54.6	20.8	
phone sites	Worries me somewhat	33.9	45.0	
	Worries me a lot	11.5	34.2	
Concern about the affect on your properties value in the future	Does not worry me	61.3	15.4	
	Worries me somewhat	25.4	37.2	
	Worries me a lot	13.3	47.4	
Concern about the aesthetic problems caused by the tower	Does not worry me	63.3	18.2	
	Worries me somewhat	25.4	37.0	
	Worries me a lot	11.3	44.8	

Appendix III Variable Codes

Category of Dwelling

Code Definition	
Code Definition	
D Dwelling houses are of a fully detached or semi-detached style situated on their own clearly defined piece of land.	
E Converted dwelling houses that are now used as rental flat.	
F Ownership home units which may be single storey or multi-storey and which do not have the appearance of dwelling houses.	
H Home and income. The dwelling is the predominant use, and there is an additional unit of use attached to or associated with the dwelling house that can be used to produce income.	
R Rental flats that have been purpose built.	

Quality of the Principal Structure

Definition

- Superior design and quality of fixtures and fittings is first class.
- В The design is typical of its era and the quality of the fixtures and fittings is average to good.
- C The design is below the level generally expected for the era, or the level of fixtures and fittings is barely adequate and possibly of below average quality.

Building Materials: Walls and Roof

Code	Definition
W	Wood
В	Brick
C	Concrete
S	Stone
R	Roughcast
F	Fibrolite
M	Malthoid
P	Plastic
1	Iron
Α	Aluminium
G	Glass
T	Tiles
X	*

Appendix IV Descriptive Statistics							
Mean	Std. dev.	Median	Minimum	Maximum	Range		
221,957	110,761	200,000	42,000	839,000	797,000		
0.0658	0.0331	0.0579	0.0261*	0.3794	0.3533		
161	70.40	150	50	450	400		
116,012	50,037	111,000	21,500	385,000	363,500		
0.0601	0.0234	0.0553	0.0164*	0.2140	0.1976		
115	32.50	110	40	340	300		
127,661	51,114	119,000	43,000	375,000	332,000		
0.0685	0.0289	0.0675	0.0310	0.3169	0.2859		
122	34.60	110	56	290	234		
136,786	41,390	134,500	56,000	342,000	286,000		
0.0679	0.0163	0.0653	0.0400	0.2028	0.1628		
125	31.20	118	64	290	226		
	Mean 221,957 0.0658 161 116,012 0.0601 115 127,661 0.0685 122 136,786 0.0679	Mean Std. dev. 221,957 110,761 0.0658 0.0331 161 70.40 116,012 50,037 0.0601 0.0234 115 32.50 127,661 51,114 0.0685 0.0289 122 34.60 136,786 41,390 0.0679 0.0163	Mean Std. dev. Median 221,957 110,761 200,000 0.0658 0.0331 0.0579 161 70.40 150 116,012 50,037 111,000 0.0601 0.0234 0.0553 115 32.50 110 127,661 51,114 119,000 0.0685 0.0289 0.0675 122 34.60 110 136,786 41,390 134,500 0.0679 0.0163 0.0653	Mean Std. dev. Median Minimum 221,957 110,761 200,000 42,000 0.0658 0.0331 0.0579 0.0261* 161 70.40 150 50 116,012 50,037 111,000 21,500 0.0601 0.0234 0.0553 0.0164* 115 32.50 110 40 127,661 51,114 119,000 43,000 0.0685 0.0289 0.0675 0.0310 122 34.60 110 56 136,786 41,390 134,500 56,000 0.0679 0.0163 0.0653 0.0400	Mean Std. dev. Median Minimum Maximum 221,957 110,761 200,000 42,000 839,000 0.0658 0.0331 0.0579 0.0261* 0.3794 161 70.40 150 50 450 116,012 50,037 111,000 21,500 385,000 0.0601 0.0234 0.0553 0.0164* 0.2140 115 32.50 110 40 340 127,661 51,114 119,000 43,000 375,000 0.0685 0.0289 0.0675 0.0310 0.3169 122 34.60 110 56 290 136,786 41,390 134,500 56,000 342,000 0.0679 0.0163 0.0653 0.0400 0.2028		

^{*} These small land areas are related to apartments or units in a block of apartments/units that have the land area apportioned on a pro rata basis.

Appendix V Regression Model: St Albans

log(SLNETX) = TOWER + CATGYX2 + CATGYX4 + TIMESOLD.Q + AGE + log(LANDAX) + MATFAX + SITSTX

Residuals:	Min -0.72855	1Q -0.15032	Median 0.01593	3Q 0.14263	Max 0.72047
Coefficients:	0.12000	Estimate	Std. Error	t-value	
A STATE OF THE PARTY OF THE PAR		9.1781868	0.6769096	13.559	Pr(> t) < 2e-16 ***
(Intercept)		0.1133186	0.0318188	3.561	0.000395 ***
TOWER					
CATGYX2D		0.1846417	0.0702520	2.628	0.008776 **
CATGYX20		0.0334663	0.1008594	0.332	0.740134
CATGYX4B		-0.1551409	0.0245485	-6.320	4.75e-10 ***
CATGYX4C		-0.1483169	0.0722959	-2.052	0.040600 *
TIMESOLD.Q		0.0136663	0.0008208	16.650	< 2e-16 ***
AGE		0.0016408	0.0003521	4.660	3.81e-06 ***
log(LANDAX)		0.3285367	0.0283610	11.584	< 2e-16 ***
MATFAX		0.0022314	0.0001962	11.373	< 2e-16 ***
SITSTXAIKMANS RD		0.4029259	0.0533671	7.550	1.41e-13 ***
SITSTXBEVERLEY ST		0.2330787	0.0803137	2.902	0.003827 **
SITSTXBRISTOL ST		0.1706840	0.0521716	3.272	0.001124 **
SITSTXBROWNS RD		0.2492536	0.0720854	3.458	0.000579 ***
SITSTXCOX ST		0.3055798	0.0581672	5.253	2.00e-07 ***
SITSTXGORDON AVE		0.0823422	0.0679833	1.211	0.226236
SITSTXKNOWLES ST		0.1690979	0.0558911	3.025	0.002576 **
SITSTXMANSFIELD AV	E	0.2954242	0.0652983	4.524	7.16e-06 ***
SITSTXMCDOUGALL A	VE	0.3303105	0.0623720	5.296	1.60e-07 ***
SITSTXMURRAY PL		0.3613773	0.0629166	5.744	1.40e-08 ***
SITSTXOFFICE RD		0.3681146	0.0543368	6.775	2.71e-11 ***
SITSTX Other		0.0618491	0.0736629	0.840	0.401416
SITSTXPAPANUI RD		0.1940369	0.0560474	3,462	0.000570 ***
SITSTXRANFURLY ST		0.1701716	0.0617504	2.756	0.006012 **
SITSTXST ALBANS ST		0.1458665	0.0571172	2.554	0.010873 *
SITSTXWEBB ST		0.1895432	0.0725061	2.614	0.009143 **
SITSTXWESTON RD		0.2084419	0.0527555	3.951	8.60e-05 ***

Signif, codes: 0 '***' 0.01 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.2175 on 677 degrees of freedom
Multiple R-Squared: 0.8253, Adjusted R-squared: 0.8186
F-statistic: 123 on 26 and 677 DF, p-value: < 2.2e-16

Appendix VI Regression Model: Papanui

In(formula = log(SLNETX) ~ TOWER + SITSTX + TIMESOLD.Q + AGE + log(LANDAX) + MATFAX + WALLCNX + ROOFCNX + CATGYX4, data = Papanui.final)

Residuals:	Min -0.484987	1Q -0.098006	Median 0.003859	3Q 0.106253	Max 0.563126
Coefficients:		Estimate	Std. Error	t-value	Pr(> t)
(Intercept)		5.9482316	0.6998186	8.500	< 2e-16 ***
TOWER		-0.2339640	0.0240908	-9.712	< 2e-16 ***
SITSTXHOANI ST		-0.1966982	0.0265429	-7.411	4.26e-13 ***
SITSTXLANGDONS RD		-0.1192547	0.0281242	-4.240	2.58e-05 ***
SITSTXLEANDER ST		0.0305555	0.0449437	0.680	0.496853
SITSTXMATSONS AVE		0.0949636	0.0292461	3.247	0.001231 **
SITSTXMORELAND AVE		-0.0892332	0.0397622	-2.244	0.025183 *
SITSTXMORRISON AVE		-0.1984492	0.0289772	-6.848	1.84e-11 ***
SITSTXOther		-0.1543194	0.0337436	-4.573	5.83e-06 ***
SITSTXSAILS ST		-0.0761412	0.0433455	-1.757	0.079490.
SITSTXSAWTELL PL		0.1840793	0.0393904	4.673	3.66e-06 ***
SITSTXSAWYERS ARMS RI	D	0.0872393	0.0201388	4.332	1.73e-05 **
SITSTXST JAMES AVE		0.2497688	0.0289940	8.615	< 2e-16 **
TIMESOLD.Q		0.0138914	0.0004137	33.575	< 2e-16 **
AGE		0.0029307	0.0003512	8.345	4.85e-16 **
log(LANDAX)		0.0904764	0.0270812	3.341	0.000886 **
MATFAX		0.0042576	0.0002410	17.664	< 2e-16 **
WALLCNXC		0.0054100	0.0200666	0.270	0.787558
WALLCNXF		-0.0980851	0.0464442	-2.112	0.035106 *
WALLCNXO		-0.1158407	0.0468334	-2.473	0.013655 *
WALLCNXR		-0.0670051	0.0244382	-2.742	0.006291 **
WALLCNXW		-0.0679166	0.0192628	-3.526	0.000454 **
WALLCNXX		-0.0571365	0.0358369	-1.594	0.111381
ROOFCNXI		0.1502973	0.1139845	1.319	0.187810
ROOFCNXO		0.0870092	0.1164152	0.747	0.455111
ROOFCNXT		0.0954874	0.1138506	0.839	0.401965
CATGYX4B		-0.0623758	0.0343487	-1.816	0.069872.
CATGYX4C		-0.3669901	0.0905659	-4.052	5.74e-05 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 '' 1 Residual standard error: 0.1579 on 604 degrees of freedom Multiple *R*-Squared: 0.8718, Adjusted *R*-squared: 0.8661 *F*-statistic: 152.2 on 27 and 604 DF, *p*-value: < 2.2e-16

Appendix VII Regression Model: Beckenham

In(formula = log(SLNETX) ~ TOWER + SITSTX + CATGYX4 + TIMESOLD.Q + AGE + log(LANDAX) + MATFAX + WALLCNX + CATGYX2, data = Beckenham.final)

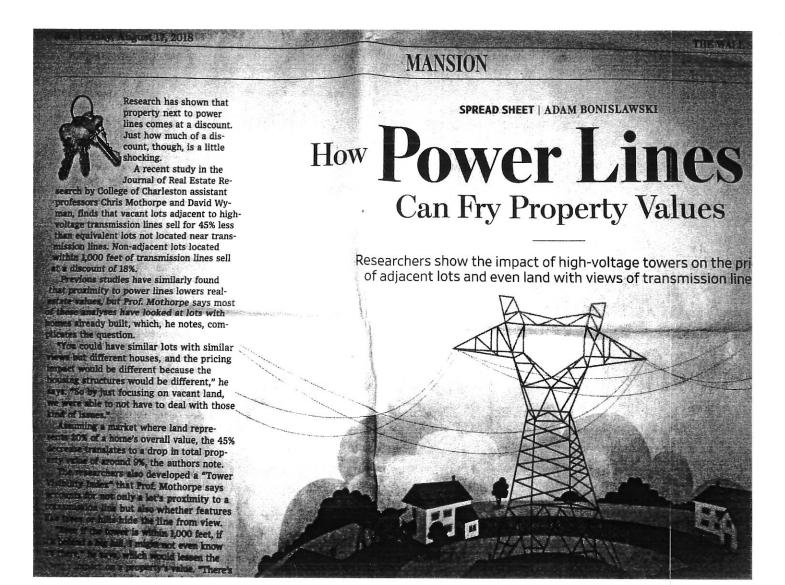
Residuals:	Min -0.64490	1Q -0.09026	Median 0.01142	3Q 0.10112	Max 0,40993
Coefficients:		Estimate	Std. Error	t-value	Pr(> t)
(Intercept)		9.2062865	0.4725194	19.483	< 2e-16 ***
TOWER1		-0.2301918	0.0182774	-12.594	< 2e-16 ***
SITSTXBECKENHAM ST		0.1648069	0.0515406	3.198	0.001436 **
SITSTXBOON ST		-0.0616738	0.0484966	-1.272	0.203817
SITSTXBRADFORD AVE		0.0923843	0.0494942	1.867	0.062300.
SITSTXCOLOMBO ST		0.0623765	0.0467234	1.335	0.182223
SITSTXDEVON ST		-0.0959430	0.0457562	-2.097	0.036299 *
SITSTXDUNN ST		-0.0207886	0.0427676	-0.486	0.627031
SITSTXFISHER AVE		0.2271245	0.0400288	5.674	1.90e-08 ***
SITSTXLONGFELLOW ST		-0.0186953	0.0451597	-0.414	0.678990
SITSTXOTHER		-0.0222126	0.0467607	-0.475	0.634888
SITSTXPERCIVAL ST		-0.0347190	0.0517740	-0.671	0.502663
SITSTXROXBURGH ST		0.1029109	0.0466753	2.205	0.027729 *
SITSTXSOMERFIELD ST		0.0186495	0.0428968	0.435	0.663851
SITSTXSOUTHAMPTON ST		-0.0243265	0.0402926	-0.604	0.546171
SITSTXSOUTHEY ST		-0.0324513	0.0429880	-0.755	0.450520
SITSTXSTRICKLAND ST		-0.0819418	0.0407196	-2.012	0.044494 *
SITSTXTENNYSON ST		0.1165007	0.0393410	2.961	0.003147 **
SITSTXWEMBLEY ST		0.0648226	0.0458033	1.415	0.157359
CATGYX4B		0.0275481	0.0373405	0.738	0.460864
CATGYX4C		-0.1168640	0.0469787	-2.488	0.013049 *
TIMESOLD.0		0.0189904	0.0003396	55.928	< 2e-16 ***
AGE		0.0010988	0.0002426	4.530	6.74e-06 ***
log(LANDAX)		0.1546535	0.0195655	7.904	8.19e-15 ***
MATFAX		0.0042054	0.0002138	19.674	< 2e-16 ***
WALLCNXC		-0.0208433	0.0378338	-0.551	0.581833
WALLCNXF		-0.1171637	0.0394091	-2.973	0.003031 **
WALLCNXO		-0.0445073	0.0399745	-1.113	0.265849
WALLCNXR		-0.1119164	0.0235736	-4.748	2.41e-06 ***
WALLCNXW		-0.0629968	0.0222366	-2.833	0.004718 **
WALLCNXX		-0.0992564	0.0398493	-2.491	0.012933 *
CATGYX2D		0.1445276	0.0399650	3.616	0.012333
CATGYX2F		0.3069113	0.0744524	4.122	4.11e-05 ***
CATGYX2R		0.2927391	0.1222453	2.395	0.016847 *
ONIGINZI		0.2021001	0.1222400	2.000	0.010041

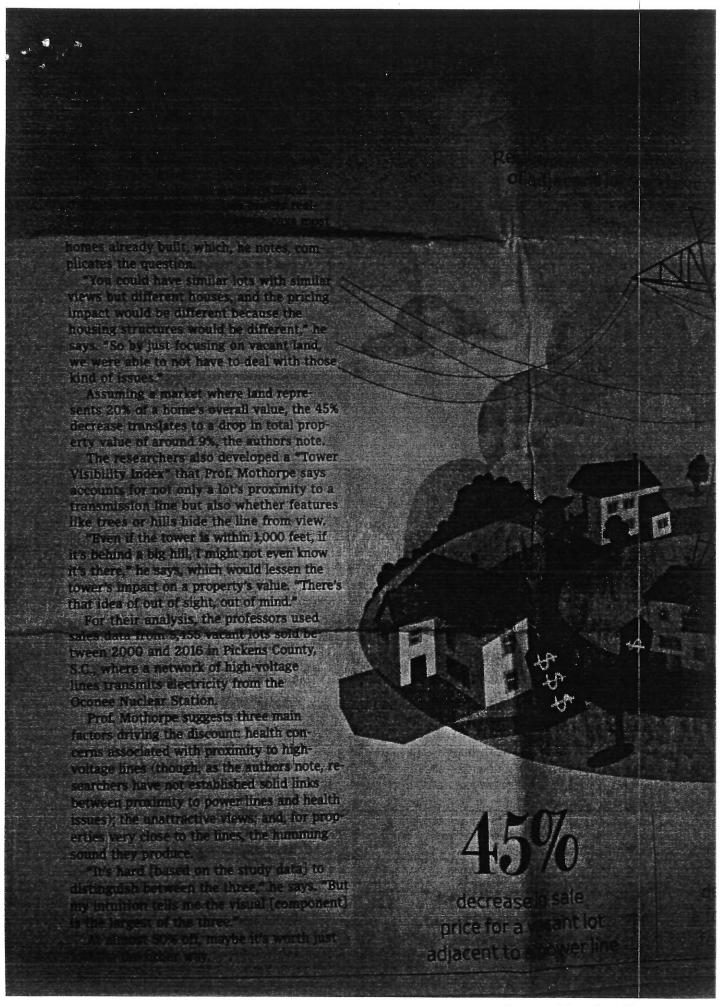
Signif. codes:0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' 1 Residual standard error: 0.1515 on 864 degrees of freedom Multiple *R*-Squared: 0.8911, Adjusted *R*-squared: 0.8869 *F*-statistic: 214.2 on 33 and 864 DF, *p*-value: < 2.2e-16

Appendix VIII Regression Model: Bishopdale
In(formula = log(SLNETX) ~ TOWER + TIMESOLD.Q + AGE + log(LANDAX) + MATFAX + WALLCNX + SITSTX, data = Bishopdale.final)

Residuals:	Min -0.53633	1Q -0.08893	Median 0.01446	3Q 0.08850	Max 0.49048
Coefficients:		Estimate	Std. Error	t-value	Pr(> t)
(Intercept)		9.0005033	0.6988891	12.878	< 2e-16 ***
TOWER		0.0262575	0.0182796	1,436	0.151259
TIMESOLD.Q		0.0097887	0.0004834	20.251	< 2e-16 ***
AGE		0.0013236	0.0003598	3.679	0.000249 ***
log(LANDAX)		0.1357753	0.0333622	4.070	5.16e-05 ***
MATFAX		0.0039665	0.0001855	21.389	< 2e-16 ***
WALLCNXC		-0.0169935	0.0108641	-1.564	0.118160
WALLCNXO		0.0785660	0.0336688	2.333	0.019863 *
WALLCNXR		-0.0693225	0.0300511	-2.307	0.021313 *
WALLCNXW		-0.0815023	0.0230110	-3.542	0.000420 ***
SITSTXCARDOME ST		0.0610536	0.0314227	1.943	0.052360.
SITSTXCHEDWORTH AVE		0.0330487	0.0317738	1.040	0.298589
SITSTXCLOTILDA PL		0.2252988	0.0420078	5.363	1.06e-07 ***
SITSTXCOLESBURY ST		0.0528749	0.0302668	1.747	0.081018.
SITSTXCOTSWOLD AVE		0.0604953	0.0286474	2.112	0.035012 *
SITSTXEASTLING ST		0.0551537	0.0319833	1.724	0.085003.
SITSTXFARRINGTON AVE		-0.0001768	0.0238544	-0.007	0.994087
SITSTXHAREWOOD RD		0.0204412	0.0252674	0.809	0.418753
SITSTXHIGHSTED RD		0.0391760	0.0253953	1.543	0.123302
SITSTXKILBURN ST		-0.0176756	0.0366951	-0.482	0.630155
SITSTXKINGROVE ST		-0.0052772	0.0375965	-0.140	0.888406
SITSTXLEACROFT ST		0.1058243	0.0333633	3.172	0.001571 **
SITSTXMURMONT ST		0.1825316	0.0365287	4.997	7.12e-07 **
SITSTXNEWMARK ST		-0.0342136	0.0272490	-1.256	0.209621
SITSTXOTHER		0.0525437	0.0253634	2.072	0.038612 *
SITSTXRALEIGH ST		0.0470151	0.0314032	1.497	0.134740
SITSTXSTACKHOUSE AVE		0.0235719	0.0278844	-0.845	0.398165

Signif. codes:0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.137 on 821 degrees of freedom
Multiple R-Squared: 0.7946, Adjusted R-squared: 0.7881
F-statistic: 122.1 on 26 and 821 DF, p-value: < 2.2e-16





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