Department of Environment, Climate Change and Water NSW

Coastal Management Reforms

Mike Sharpin Urban and Coastal Water Reform Branch

Context

- Some 300 houses currently at risk in NSW from coastal erosion
- Many unresolved coastal erosion management problems
 evident after severe storms
- Progress on coastal management planning has been slow, with some plans taking over 10 years
- Need for erosion risks to be understood and planned emergency responses need to be in place
- Local communities need to know what these hazards mean and what property owners can or can't do
- Sea level rise tracking at upper end of projections and expected to continue

Coastal Management Reforms

- Sea Level Rise Policy now finalised
- Draft guidelines on coastal and flood risk
 assessment
- Coastal Erosion Reforms
 - Emergency Management Action Plans
 - Legislative Amendments
- Relevant Coastal Management Guidelines
- Grants Reform

Sea Level Rise Policy

- Outlines NSW Government's proposed strategies
 to minimize the impacts from sea level rise
- Adopts sea level rise benchmarks for planning purposes - 40cm at 2050 and 90cm at 2100
- Benchmarks based on best available science -IPCC and CSIRO
- Released with draft DECCW and DoP guidelines
 on implementation of benchmarks

Sea Level Rise Policy - Key points

- State Government funding for coastal management is limited
 - Priority to protecting public infrastructure
- Government will continue to support councils
 - Coastal hazard assessments and planning, grants, technical guidance
- Enable appropriate development in areas affected by sea level rise
- Make sea level rise information publicly available

- Enable informed decisions by purchasers

Sea Level Rise Policy - Consultation

- Over 100 submissions received
- · Generally supported by most councils
- Range of views on sea level rise benchmarks
 Too high to too low
- Councils raised related issues e.g. indemnity from liability

Sea Level Rise Policy - Changes

- No significant changes
- Sea level rise benchmarks unchanged
- Benchmarks consistent with Victoria and Queensland (0.8m by 2100)
 - NSW regional variation (0.1m) CSIRO
- Use of benchmarks required in undertaking coastal and flood hazard assessments

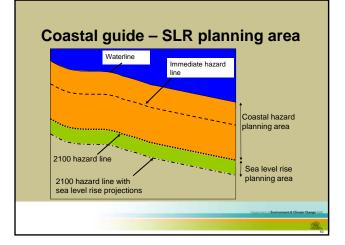
Draft coastal and flood risk guides

- Guidance on incorporating sea level rise benchmarks in
 - Coastal hazard assessment
 - Flood risk assessment
- Extends guidance in current manuals
 - Coastline management manuals hazard lines
 - Floodplain development manual flood planning areas

Draft guides – SLR planning areas

- Both guides define a "sea level rise planning area"
 - Additional land projected to be subject to coastal hazards and flooding due to sea level rise
 - Located landward of hazard lines or uphill of flood planning areas

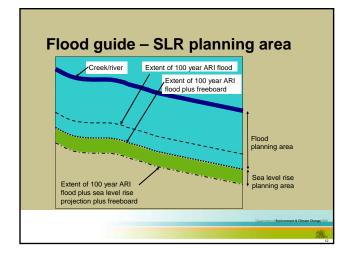




Coastal Guide - Incorporating SLR benchmarks

- <u>Considerations:</u>
- Increased design still water levels increased oceanic inundation hazards
- Recession of unconsolidated (sandy) shorelines
 - Bruun rule: 1 m sea level rise \approx 50-100 m recession





Guidance on ocean boundary conditions

- Coastal flooding due to ocean and/or catchment flooding
- Appendix provides interim advice on considering joint probability of ocean and catchment flooding occurring
- Entrance type affects ocean boundary condition (eg ICOLL differs to trained river)

Draft Guides - Consultation

- Feedback invited on draft guides
- Email coast.flood@environment.nsw.gov.au
- Comments due Friday 11 December

Coastal Erosion Reforms

• Aim:

- To expand the range of tools for councils to deal with the coastal erosion issues on private property
- To clearly define what people can and cannot do to protect their properties
- To make it clear that public beaches are to be protected as a priority for Government
- coastal protection works that benefit private landowners are to be paid for by landowners who directly benefit

Emergency Management

- Council Coastal Erosion Emergency Action Plans
 DECCW guidelines to be prepared with SES
- Code of Practice for appropriate temporary protection measures
- Infrastructure SEPP, Marine Parks and Crown Lands legislation to be amended to permit temporary works
- Temporary works must be consistent with Emergency Action Plan and Code of Practice

Legislative Amendments

- Coastal Protection Act amendments:
 - Include sea level rise adaptation as an objective
 - Powers to stop unapproved works, increased penalties
 - Expand coastal zone management plan requirements to include coastal hazards, estuary health and climate change
 - Ministerial direction to some councils to complete coastal zone management plans

Legislative Amendments

- Local Government Act amendments
 - Permit councils to levy a coastal protection service charge on beneficiaries – to manage maintenance of works and offsite impacts of landowner-funded seawalls in perpetuity
 - Strengthen indemnity provisions for local councils for coastal management if acting in "good faith"

Legislative Amendments

- Infrastructure SEPP amendments
 - Permit "appropriate" landowner-funded long term protection works with consent
 - Works need to comply with stringent environmental and engineering requirements as specified in DECCW guidelines

New Coastal Zone Management Planning Guidelines

- Replace 1990 Coastline Management and 1992 Estuary Management Manuals
- Support Coastal Protection Act requirements
- Provide clear of coastal zone management principles and objectives
- Guide the technical assessment and management of coastal hazards and estuary health
- Aim Draft out for consultation by February 2010

Further sea level rise information: www.environment.nsw.gov.au/climatechange/sealevel.htm

Further coastal zone management information: http://www.environment.nsw.gov.au/coasts/index.htm

Questions?

Plenning Draft NSW Coastal Planning Guideline: Adapting to Sea Level Rise November 2009

Hereing

Draft Coastal Planning Guideline – Adapting to Sea Level Rise

Scope, aims and context

- Consideration of sea level rise in land use planning and development assessment
- For councils, State agencies, planners and development proponents
- Applies to all coastal areas of NSW
- Coastal risks include coastal erosion, tidal inundation and coastal flooding
- Builds on relevant planning policies, manuals, plans and strategies

Draft Coastal Planning Guideline – Adapting to Sea Level Rise

Policy Context

- NSW Coastal Policy
- SEPP 71

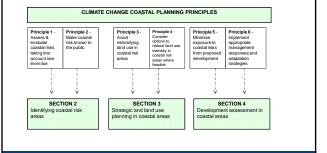
NEC Pantos

- NSW Coastal Design Guidelines
- Coastal Regional Strategies and Sydney Metro Strategy
- Coastline and Floodplain manuals
- Section 117 Direction 2.2 Coastal Protection
- Section 117 Direction 4.3 Flood Prone Land
- Standard Instrument Clause 5.5
- Sea Level Rise Policy Statement provides sea level rise
 benchmarks to be used in the context of the above policies

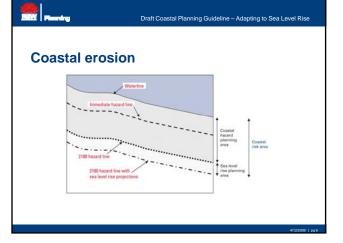
Phoning

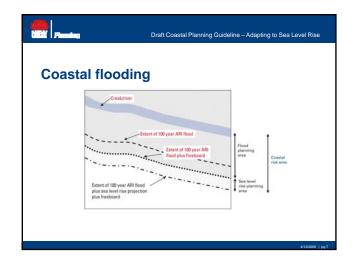
Draft Coastal Planning Guideline - Adapting to Sea Level Rise

SIX Guideline Principles



Data Coastal Planning Guideline – Adapting to Sea Level Rise Detecting coastal risk areas and 0.9m to 2100 DECCW manuals & draft guides (coast & floodplain) Investigation areas – prior to completing new studies Make information public







Nill Plan

Regulating coastal development in LEPs and DCPs

•Land use zones - regulate land use, additional objectives

•Principal development standards – minimum lot size, building height, floor space ratio

Draft Coastal Planning Guideline - Adapting to Sea Level Rise

•Clause 5.5 – consent authority to consider effects of coastal hazards/processes on and by development

•DCPs – additional matters for consideration or development standard eg construction design and material, relocatable buildings

•Consultation question: model LEP clause for coastal risk areas

Hitt Rearing

Draft Coastal Planning Guideline - Adapting to Sea Level Rise

Development assessment

- Pre-DA site selection locate outside coastal risk areas if possible
- Proponent site design & layout, management responses, adaptation strategies, information requirements
- Consent authority assess risk (location and type of development) and merit
- Consent authority have consideration for Planning Criteria when making determination
- Exemption for minor development



Draft Coastal Planning Guideline – Adapting to Sea Level Rise

Planning criteria for assessing DAs

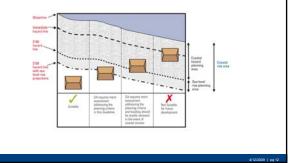
- Avoid or minimise exposure to immediate coastal risks
- Provide for safety of residents, workers and occupants on-site
- Do not adversely affect safety of public off-site
- Do not increase coastal risks to nearby properties
- Ensure infrastructure and services maintain their function
- Accommodate natural coastal processes
- Protect coastal ecosystems

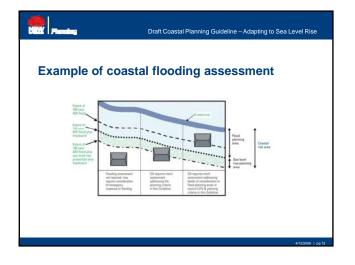
Maintain existing amenity and access

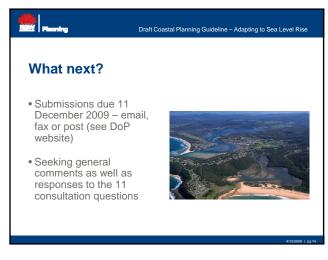
Facality Draft Coas

Draft Coastal Planning Guideline - Adapting to Sea Level Rise

Example of coastal erosion assessment









Collaroy-Narrabeen Coastline Hazard Lines

Presentation by Daylan Cameron Sydney Coastal Councils Group Workshop 1 December 2009











Coastal Erosion Collaroy/Narrabeen Beach

- Long history of storm damage and coastal erosion
- Nationally 3rd area most at risk from coastal processes

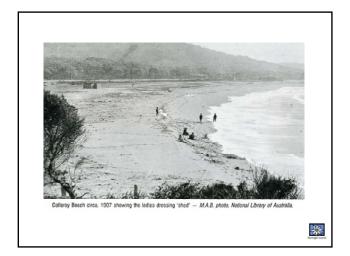
Coastal Erosion Collaroy/Narrabeen Beach

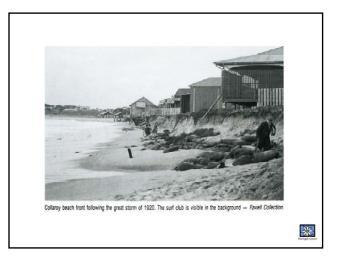
- Storms caused considerable damage in the 1920s, 1940s, 1960s and 1970s.
- Cause of the problem:

"The problem stems from the fact that the initial sub-division was too close to the beach with properties extending into the active beach zone." (Nielsen Lord Associates,1988).

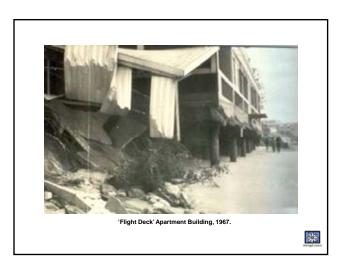
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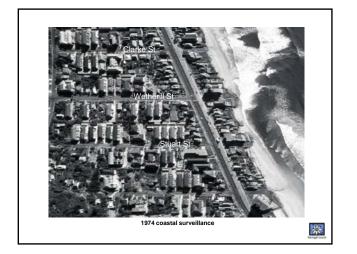
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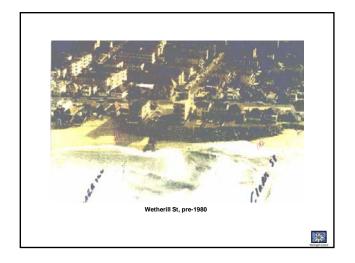


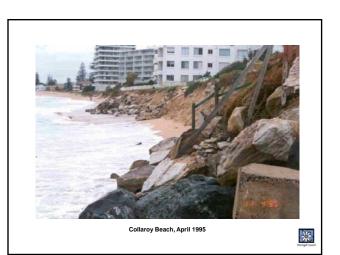


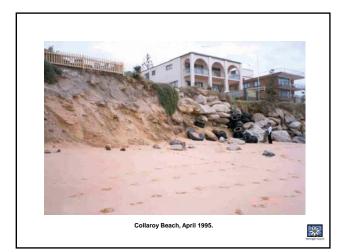
























History of Storm Damage

• A detailed history of the storm damage from 1880 to 1986, is provided in:

Collaroy/Narrabeen Beaches - Coastal Process Hazard Definition Study (PWD 1987).

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Early actions to minimise property damage

- Building lines were established following severe storms in 1967 and 1974:
 - 15m setback north of Goodwin St
 - 23m setback south of Goodwin St to Jenkins St

*

Studies and reports

- Coastal Management Strategy, prepared for Council in conjunction with the Public Works Department of NSW (WSC 1985);
- Collaroy/Narrabeen Beaches Coastal Process Hazard Definition Study, prepared for Council by the Public Works Department (PWD 1987);
- Collaroy/Narrabeen/Fishermans Beach Coastal Management Strategy - Phase One: Hazard Definition, prepared for Council by Nielsen Lord Associates (NLA 1988);
- Collaroy/Narrabeen/Fishermans Beach Coastal Management Strategy - Management Options and Appendices, prepared for Council by Nielsen Lord Associates and Travers Morgan Pty Ltd (NLA 1989).

Studies and reports (cont.)

- Narrabeen-Collaroy Fishermans Beach Coastal Management Strategy – Management Options, prepared for Council by Nielsen Lord Associates & Travers Morgan P/L (1989);
- Collaroy-Narrabeen Beach Hazard Mapping, prepared for Council by Nielsen Lord Associates (1990);
- Criteria for the Siting and Design of Foundations for Residential Development, prepared for Council by Geomarine P/L and Coffey Partners International P/L (1991);
- Collaroy/Narrabeen Beach Nourishment Investigations, prepared for Council by Patterson, Britton & Partners (1993)

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Key Reports re Hazard Lines

1. Collaroy-Narrabeen Beach – Hazard Mapping, prepared for Council by Nielsen Lord Associates (1990)

Provided basis for the development of a set of Interim Building and Development Guidelines.

Contained maps showing:

- "immediate" impact lines for the beachfront
- predicted "50 year" impact lines (should no action be taken to protect existing development)

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Key Reports re Hazard Lines

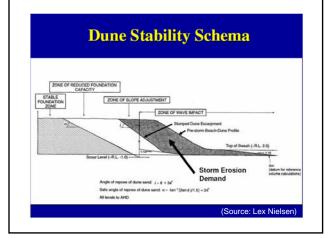
 Criteria for the Siting and Design of Foundations for Residential Development, prepared for Council by Geomarine P/L and Coffey Partners International P/L (1991)

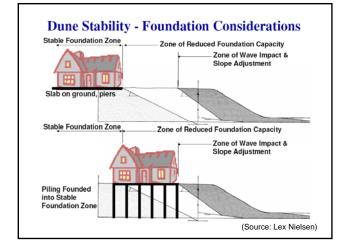
Provided a series of Hazard Maps for the beach, delineating the following hazard zones:

- Wave Impact Zone
- Zone of Slope Adjustment
- Reduced Foundation Zone

NB - Maps used were based on the "immediate" hazard lines.

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Studies and reports

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- Collaroy/Narrabeen Beach Nourishment Investigations, prepared for Council by Patterson, Britton & Partners (1993)

Collaroy/Narrabeen Coastline Management Plan (1997)

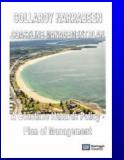
Adopted in 1997

Identifies management strategies for dealing with coastal erosion along the beach.



Management Strategies include:

- 1. Undertake protective works
- 2. Environmental planning measures
- 3. Development control and conditions
- 4. Dune Management



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Implementation Progress

- Substantial progress
- Of the 13 actions, only two have not been started (ie. A2 and A3), with actions relating to moderate beach nourishment on hold pending State & Federal Government support.
- All high priority actions are at various stages of implementation, being either complete, ongoing or underway.
- Some of the actions have not proven to be sustainable in the long term (eg B6 purchase of properties), or popular with the community (eg. A2 seawall).

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Discussion Points & Issues

- Incorporation of the Hazard Lines and Hazard Maps into planning documents a testament to the robustness and quality of the scientific and engineering studies that underpin them.
- However, the Hazard Lines Council has been using for the last 18 years, are the "immediate" Hazard Lines as calculated in 1991.
- They do not account for any future long term recession of the beach due to net sediment loss or sea level rise.

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Discussion Points, Issues (cont.)

- Plan's intention was that a review of the Development Guidelines for Collaroy/Narrabeen Beach would be undertaken following the "Selective reconstruction of existing seawalls and minor construction to infill gaps in existing walls".
- It was thought that after the seawall was built and nourishment undertaken, the Hazard Lines would become obsolete.

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Proposed Seawall Upgrade 1998 - 2003

- Detailed proposal to upgrade the 1.1km of adhoc built seawall that exists in front of approximately 55 properties
- 2002 Public exhibition of proposal









Proposed Seawall Upgrade Public Exhibition 2002

- Over 550 submissions were received the vast majority objected to the seawall.
- Due to the widespread community opposition, Council resolved on 25 February 2003:
 - Not to proceed with the proposed seawall upgrade;

- To investigate alternative options for protecting properties against coastal erosion, particularly the sourcing of offshore sand for beach nourishment.

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Have the Hazard Lines been successful?

- Have served Council well
- Used by Council staff in assessing/considering DAs
- Some applicants, that have had DAs refused, have exercised their right of appeal through the Land & Environment Court.
- Such appeals have had very limited success (eg. Cranswick-Smith v Warringah Council 2002, and Welsh v Warringah Council 1999).

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Why review the Hazard Lines?

- Action in Coastline Management Plan.
- They hadn't been examined / reviewed since 1990.
- Used by Council officers on a daily basis.
- Seawall option not being pursued, and the prospect of nourishing the beach with offshore sand could be a long way off.
- CLIMATE CHANGE AND SEA LEVEL RISE.
- · Council has a 'duty-of-care'

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"Life's a beach, and then it disappears" (SMH, 19/07/2006)

What if the Hazard Lines move as a result of the Review?

- 'Wind-fall' gains or losses?
- If Seaward new DAs/increased development?
- If Landward claims for compensation?



- 1. Assess the validity and methodology used to determine the Hazard Lines currently in place (ie. 1991 lines).
- 2. Calculate and determine the locations of the following sets of Coastline Hazard Lines (CHL):
 - 2009 CHL

 - 2009 CHL 2059 Mid-Range CHL (i.e. 0.2m SLR) 2059 High-Range CHL (i.e. 0.4m SLR) 2109 Mid-Range CHL (i.e. 0.6m SLR); and, 2109 High-Range CHL (i.e. 0.9m SLR).

Review deliverables (cont.)

- 3. Provide a detailed explanation and justification for any change to the current Hazard Lines.
- 4. Prepare updated sets of Hazard Maps.
- Provide advice and recommendations on any actions Council should undertake resulting from the findings of this Review.

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6. **Final Report**

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Project chronology

- Call for Quotations Apr 2007
- Jun 2007 - Appointment of successful consultant (Patterson Britton & Partners P/L)
- Jun 07 09 Review period

Current status of project

- Council has received a Final Draft Report.
- Council staff and management currently reviewing report.
- Mayoral Minute to be considered by Council on 8 December 2009.
- Councillor briefing scheduled for February 2010 兼

Matters for consideration

- Draft Warringah LEP and DCP (2009)
- Consultation with land-owners and residents.
- NSW Reforms to the management of coastal erosion.

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Other Council initiatives relating to sea level rise

- Partnership projects with Sydney Coastal Councils Group (SCCG).
- Consideration of impacts on coastal lagoons and floodplain planning.
- Emergency Management of Coastal Erosion.
- Collaborative coastline monitoring research.

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Sydney Coastal Council Group Workshop on NSW Government Sea Level Rise Policy Statement, Risk Management Guides and Draft Coastal Planning Guideline Marconi Room, Town Hall House Tuesday 1st December 2009

APPLICATION OF FLOOD RISK MANAGEMENT GUIDE

MAPPING FLOOD HAZARDS

Sue Ribbons Project Leader, Floodplain Management, Pittwater Council

PITTWATER COUNCIL



Types of Flood Mapping

- sea level rise only
- · catchment flooding:
- with no climate change impacts
- · catchment flooding:
 - with sea level rise
 - no increase in rainfall intensities
- · catchment flooding:
 - with sea level rise
 - with increase in rainfall intensities.

PITTWATER COUNCIL



Mapping Sea Level Rise Only

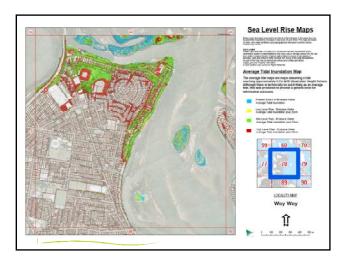
- "bath-tub" or "still water" map
- · easiest impact to map
- · does not include wave set up and wave run up:
 - so difficult to use along open coast
- · documents to use:
 - Draft Flood Risk Management Guide
 - Draft Coastal Risk

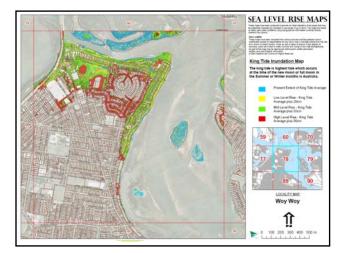
Management Guide. PITTWATER COUNCIL

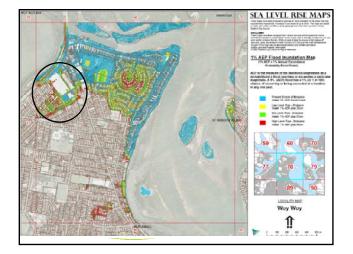


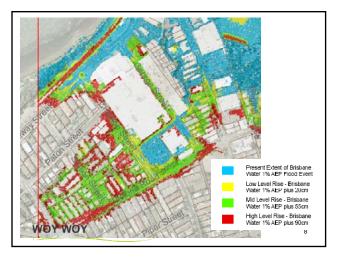
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All levels in metres AHD	Existing (2009)	2050 (+ 0.4m from 1990)	2100 (+ 0.9m from 1990)	Preliminary Mapping to get idea of impacts		
				Add say 0.5m freeboard	Nearest 0.5m contour	
Average Tide	0.6	1.0	1.5	2.0	2.0	
Weekly Tide	1.0	1.3	1.8	2.3	2.5	
Yearly King Tide	1.2	1.6	2.1	2.6	2.5	
1%AEP Storm Tide	1.4	1.8	2.3	2.8	3.0	









Mapping of Catchment Flooding

• requires a Flood Study:

- defines nature and extent of flood behaviour and flood problem



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- depths of inundation
- speed of floodwaters
- flood hazard

- flood extents

document to use: Floodplain Development Manual: - defines Floodplain Management Process.

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Mapping of Catchment Flooding · flood modelling required (no climate change to start): - 20% AEP (1 in 5 year) - 5% AEP (1 in 20 year) - 2% AEP (1 in 50 year) - 1% AEP (1 in 100 year) - 0.5% AEP (1 in 200 year) - 0.2% AEP (1 in 500 year) - 0.01% AEP (1 in 1000 year)

- probable maximum flood
- flood planning level:

1% AEP + 0.5m freeboard PITTWATER COUNCIL



Mapping of Catchment Flooding

- incorporate climate change into catchment flooding:
 - sea level rise:
 - · draft Coastal Risk and Flood Risk Management Guides
 - increased rainfall intensity / peak rainfall / storm volume:
 - 2007 DECC Guideline "Practical Consideration of Climate Change" · Sensitivity of impacts:
 - Low → 10% increase
 - Medium → 20% increase
 - High → 30% increase

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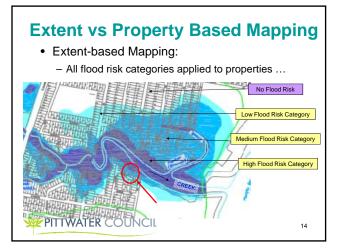
Mapping of Catchment Flooding

- all Flood Studies required to have Sensitivity Analysis:
 - what happens if change rainfall intensities
 - what happens if change lake or sea level downstream
- information used to get idea of:
 - additional extents of inundation
 - additional number of properties affected
 - additional infrastructure affected
 - if new or worse floodways or high hazard areas could occur.

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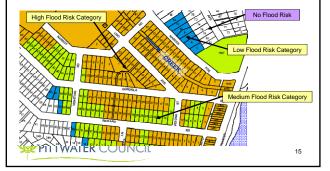
Flood Size	No climate change	With sea level rise No increase in rainfall		With sea level rise 10% increase in rainfall		With sea level rise 30% increase in rainfall	
		0.4m	0.9m	0.4m	0.9m	0.4m	0.9m
20%AEP (5 year)	✓	✓	✓	>	✓	✓	✓
5%AEP (20 year)	✓	✓	✓	>	✓	✓	~
1% AEP (100 year)	✓	✓	✓	~	✓	✓	~
Probable Maximum Flood	✓	√	√	~	✓	✓	~

Mapping Catchment Flooding

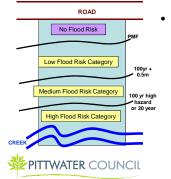


Extent vs Property Based Mapping

- Property-based Mapping:
 - Flood Risk Category applies to lowest point on property

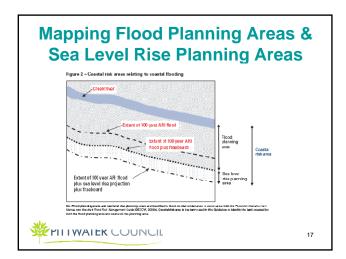


Extent vs Property Based Mapping

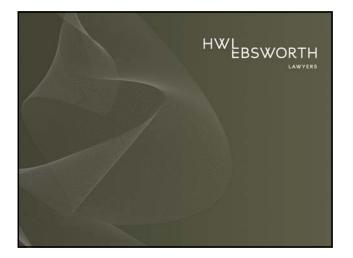


- Which risk category to apply?:
 - all four categories?
 - one category relating to lowest part of property?.

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HWLBSWORTH

Integrating NSW Coastal Planning Guideline into Strategic Planning

Kirston Gerathy Partner, HWL Ebsworth Lawyers

Sydney Coastal Councils Group Workshop 1 December 2009

HWLBSWORTH

1. **Overview**

- . Rapid urban expansion
- Hazards and increased exposure and vulnerability .
- Responsibility for planning boundaries .
- . Collision between private property rights and public interest law

HWEBSWORTH

2. Existing Legislative & Policy Framework

- National Initiatives National Co-operative Approach to Integrated Coastal Zone Management (2003) Standing Committee Report October 2009 Zone Management (2003) - Standing Committee NSW Umbrella framework Coastal Protection Act 1979 Environment Planning and Assessment Act 1979 Local Government Act 1993 State Environment Planning Policy No 71 S.117 Directions NSW Coastal policy 1997 NSW Coastal policy 1997

 - NSW Coastial policy 1997 NSW Coastine Hazard Policy 1988 (to be superseded by the Draft Sea Level Rise Policy Statement) NSW Coastial Management Manual 1990 Coastial Design Guidelines for NSW Various regional strategies Coastial Management Plans Local Environment Plans
 - .

 - Local Environmental Plans Standard Instrument c. 5.5 .

HWEBSWORTH

HWEBSWORTH

4. Goal – Guidance?

"The benchmark is not intended to be used to preclude the development of land projected to be affected by sea level rises. The goal is to ensure that such development recognises and can appropriately accommodate the projected impacts of sea level rise on coastal hazards and flooding over time, through appropriate site planning and design". *

* sea level rise policy.

· How? Does not mandate any particular outcome

HWEBSWORTH 5. **Current Management Options – Coastal** Manual Environmental Planning Dune Management Buffer Zones Dune Management Planning Community Involvement Restrictive Zoning Planned Retreat Dune Reconstruction Voluntary Purchase Dune Revegetation Dune Protection Development Control Conditions Dune Maintenance Building Setback Protective Works Building Types Dune Protection Seawalls Flood Mitigation Training Walls Foundation Design Groynes Emergency Access Beach Nourishment Relocatable Buildings Offshore Breakwaters Planned Retreat Artificial Headlands Configuration Dredging

Sea Level Rise Policy Statement

promote an adaptive risk based approach to managing sea level rise

 provide guidance to local Councils to support their sea level rise adaptation planning
 encourage appropriate development on land projected to be at risk from sea level rise

sed level revel revel to provide emergency management support to coastal communities during times of flood and storms - continue to provide updated information to the public about sea level rise and its impact."

"To minimise the social disruption, economic costs and environmental impacts resulting from long term sea level rise. To achieve these objectives the NSW Government will:

3.

Primary Objective

. impacts

HWEBSWORTH

6. Existing & Future Development

- Existing Development at Risk
- Location & Design of future development to meet population needs

"First, do no more harm?"

HWEBSWORTH

HWLEBSWORTH

8. LEP

- Template LEP
- Aims / objectives threshold clause
- Zones Environmental management
- Clause 5.5 Standard instrument
- Environmental protection works
- Minimum lot size
- FSBL Coastal Hazard Planning Area
- Exempt and complying development
- EUR (amend c. 41 of Regulations)

- HWEBSWORTH DCP 9. 10. Guidelines – weight to be given How – resolution / policy Weight – ground truthing / challenge Stockland v. Manly (2004) NSWLEC 472 . Include DA information requirements (p 15 Guidelines) . Controls the extent, if any, of research and public consultation undertaken when creating the policy Architectural responses the time during which the policy has been in force and the extent of any review of Relocatable modular buildings its effectiveness Building setbacks from hazards the extent to which the policy has been departed from in prior decisions Foundation design the compatibility of the policy with the objectives and provisions of relevant environmental planning instruments and development control plans Services Limit intensity Emergency Management Protocols – avoid ad hoc works
 - Prescriptive / performance or deemed to comply models

7.

Planning Tools & Trials

"Umbrella Controls" are contained in subordinate legislation and

comprise "Motherhood Statements" - objectives and options which are

required only to be considered or taken into account when preparing

Environmental Land Use Planning

Civil Enforcement & Compliance

instruments or assessing development.

Development Assessment

S.149 Certificates

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Investigation Areas – Planning Policy

errorommental planning instruments and development control plans

the compatibility of the policy with other policies adopted by a council or by any
other relevant government agency

whether the policy contains any significant flaws when assessed against
conventional planning outcomes accepted as appropriate for the site or area
affected by it.

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12. Hidden Traps

- Building Certificates
 Seven years?
 Planning Certificates

- Part 3A Projects
 - Excludes Part 4 and 5 EPA Act LEP's, CMP's, DCP's and SEPP's do not apply
 - Part 3 Coastal Protection Act regulating use and development in coastal zone

 - Can't approve a "prohibited" project in sensitive coastal location
 Minister may, but is not required to take into account EPI's
 If go through "concept" plan process a prohibited project may be approved."

			HWEBSWORTH		
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11. Implementation & Enforcement

Restrictions as to user – suspension clauses (template LEP)

Imposition of conditions

Removal / relocation on hazard trigger

Orders regime EPA Act / LG Act

No ability to enter private land

CZMP – Part 3 Coastal Protection Act 1979

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