

LAKE CATHIE NSW 2445

RECORD OF STUDIES CARRIED OUT ON THE ESTUARY AND COASTAL ZONE

1) Name: Lake Innes- Lake Cathie Catchment Study

Year: 1983

Produced By: Colin Creighton

Topic: Recourse appraisal, with recommendations for restorations and management.

Commissioned by: Hastings Council

Recommendations:

- a) Lake Innes reversion
- b) Widening of Kenwood Drive Bridge
- c) Southern Headland reinstatement
- d) Lagoon maintenance dredging on regular basis

2) Name: Lake Innes- Lake Cathie Flood Study

Year: 1984

Produced By: Public Works Department

Topic: Effects on Flooding to the Village

Commissioned by: Hastings Council

Recommendations:

- a) Increasing width of Kenwood Drive will cause flooding to a couple of low lying properties in Kenwood Drive

3) Name: NSW Coastal Zone Management Study

Year: 1987

Produced By: NSW Public Works

Topic: Beach & Dune Erosion

Findings:

- a) Beach and Dune erosion identified with assets threatened in Dickson Reserve (caravan Park)
- b) Physical works to prevent or reduce erosion as part of Management Plan

4) Name: Lake Innes- Lake Cathie Management Plan

Year: 1992

Produced By: Webb & McKeown

Topic: Lake Innes Reversion, Lake Opening Policy

Commissioned by: Hastings Council

Recommendations:

- a) Lake Innes reversion
- b) Widening of Kenwood Drive Bridge
- c) More studies required to support findings

5) Name: Lake Innes- Lake Cathie Management Plan (Aquatic Biological System)

Year: 1994

Produced By: Webb & McKeown

Commissioned by: Hastings Council

Topic: Lake Innes reversion-Study of Estuarine Biota, water and sediment quality, record of fish catches.

Recommendations:

- a) Lake Innes reversion will result in more fish overall (fresh water species)
- b) Better health for both systems after reversion

6) Name: Lake Innes- Lake Cathie Management Plan (Terrestrial Biological System)

Year: 1994

Produced By: Webb & McKeown

Commissioned by: Hastings Council

Topic: Reversion of Lake Innes-Fauna study

Recommendations:

- a) Lake Innes reversion will result in more birds & species (fresh water species)
- b) Better vegetation after reversion

7) Name: Lake Innes- Lake Cathie Management Plan (Water Quality)

Year: 1994

Produced By: Webb & McKeown

Commissioned by: Hastings Council

Topic: Study of existing health of Lake System, Lake opening strategy.

Recommendations:

- a) Lake should have more frequent openings to improve water quality.
- b) Lake should be opened once salinity levels record 40%
- c) Lake should be opened annually at highest level possible
- d) Lake system has high risk of stratification.

8) Name: Lake Innes- Lake Cathie Management Plan (Physical Process)

Year: 1994

Produced By: Webb & McKeown

Commissioned by: Hastings Council

Topic: Computer modelling (WBNM & Rubicon) re possible reversion of Lake Innes

Recommendations:

- a) Supporting Lake Innes reversion
- b) Widen Kenwood Drive Bridge

9) Name: Lake Innes- A Tale of Two Lakes

Year: 2003

Produced By: UMWELT

Commissioned by: NPWS

Topic: Lake Management and options

Recommendations:

- a) Supporting Lake Innes reversion

10) Name: Lake Cathie Southern Coastal Foreshore Management Plan

Year: 2003

Produced By: Gerrand & Associates

Commissioned by: Hastings Council

Topic: Degraded Stormwater Outlets, Degraded Dune Field and Bushland

Recommendations:

- a) Urgent rectification of stormwater outlets.
- b) Walking Track (Gookik Track) to support revegetation and maintenance.
- c) Bush regeneration

11) Name: Lake Cathie Maintenance Dredging Plan

Year: 2004

Produced By: GHD

Commissioned by: Hastings Council

Topic: Dredging options for lake system

Recommendations:

- a) A full EIS should be immediately prepared for future dredging of lake upstream from Ocean Dr Bridge
- b) A financial report should be prepared for the widening of Kenwood Drive Bridge

12) Name: Lake Cathie and Lake Innes Assessment & Management Study (CLAM)

Year: 2007

Produced By: ANU

Commissioned by: NRCMA

Topic: Computer Modelling to determine management options

Recommendations:

- a) Updated Hydrological Survey required to assist in management process
- b) Ongoing Study

13) Name: Lake Cathie Coastal Foreshore Hazard Study

Year: 2008

Produced By: SMEC

Commissioned by: Port Macquarie Hastings Council

Topic: Beach & Dune Erosion

Recommendations:

- a) Hazard zones identified with notations included on 149 Certificates
- b) Ongoing Study

14) Name: Lake Cathie Coastline Management Study

Year: 2009

Commissioned by: PMHC & DECC

Produced by: SMEC

Topic: Beach & Dune erosion

Recommendations:

- a) List of 13 options to deal with erosion
- b) Ongoing