



October 2013

## NARARA CREEK SUBCATCHMENT FLOOD STUDY

# Community Flood Survey

**Submitted to:**  
Gosford City Council  
49 Mann Street,  
Gosford, NSW 2250

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### **APPENDICES**

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Community Flood Survey

#### **APPENDIX B**

Photographs Provided by Respondents

#### **APPENDIX C**

Community Flood Questionnaire Results

#### **APPENDIX D**

Calibration Table

#### **APPENDIX E**

Reported Damages Table

#### **APPENDIX F**

Survey Responses



### 1.0 INTRODUCTION

Gosford City Council (Council) is responsible for local planning and land management including the flood liable land in the Narara Creek Catchment. The New South Wales (NSW) State Government's Floodplain Development Manual specifies a Floodplain Risk Management Process that Council is committed to implementing in the Narara Creek Catchment.

Council has commissioned Golder Associates Pty Ltd (Golder) to provide technical services in the preparation of the Floodplain Risk Management Plan for the Narara Creek Catchment. This report presents the results of the Community Flood Survey that was completed for the Narara Creek Catchment as part of the floodplain management process.

The Community Flood Survey was developed for essentially two purposes. The first was to obtain information on historical flooding and associated damages in the Narara Creek Catchment to assist in the calibration of the flood model. The second purpose was to gauge the opinion of residents on flood related issues including flood awareness and the most appropriate flood warning systems, flood mitigation and flood management options.

The data acquired through this survey process has been collated and assessed by Golder. The results of this survey are presented in this report.

### 1.1 Survey summary

A questionnaire was prepared in consultation with Council to undertake the community survey. A copy of the questionnaire is presented in APPENDIX A.

The survey was mailed to 1,578 property owners in November 2009 within the area derived from the 1% Annual Exceedence Probability (AEP) Flood Extent by including areas that lay 15 metres above this extent. The flood extent was provided by Council. A total of 342 responses were received which equates to a response rate of approximately 22%.

The responses were received over a period of ten weeks from 26 November 2009 to 5 February 2010. Overall Respondents reported a total of 495 locations where they had observed flooding or overland flows in the study area.

Of the 322 respondents that noted how long they had "lived/worked/shopped/run a business in the study area" 261 (81%) had been in the area greater than five years, 205 (64%) greater than ten years, 133 (41%) greater than twenty years, and 16 (5%) greater than forty years. Based on the total number of years the respondents have observed the flood study area, the data obtained is considered to provide a reasonable history of flooding in the area, and not focus solely on recent flood events.

Twenty-seven surveys were "returned to sender". These surveys were addressed to a variety of Government departments, private residences and commercial premises. This is not expected to affect the overall quality of the data obtained from the survey.

Several respondents provided photos of flooding events which are provided in APPENDIX B.

Out of a total of 342 responses, 113 (33%) respondents indicated that their property had flooded and 22 (6%) of these properties were reported to have flooding within structures on their property.

The results from the survey have been tabulated and are included in APPENDIX C.

Survey questions were answered by respondents with varying degrees of accuracy. One distinction this report makes is that between reports of flooding at "general" and "specific" locations. The distinction arises where one respondent may describe a flood location as "Narara Valley Drive" where another may describe the flood location as "Narara Valley Drive from Yurunga Street to Deane Street". For the purposes of this report the former is considered a "general" flood location and the latter a "specific" flood location.



The report is discussed on a subcatchment basis with reference to the Flood Management Areas as outlined by Council. Figure 1 shows the Narara Creek subcatchment boundaries and the Flood Management Areas.

### 1.2 Narara Creek Subcatchments

Narara Creek Catchment has been divided into seven subcatchments that represent the major creek systems in the area. These subcatchments provide the main sections for this report, listed below and shown in Figure 1.

- A - West Narara Creek
- B - Upper Narara Creek
- C - Fountain Creek
- D - Wyoming Creek
- E - Wingello Creek
- F – Brady's Gully Creek
- G - Lower Narara Creek

### 1.3 Flood Management Areas

Council has identified twelve Flood Management Areas (FMA) in the Narara Creek Catchment within the subcatchments noted above. Flooding has been known to occur at varying frequencies in these areas for which Council requires detailed analysis in this study. The Flood Management Areas are listed below with the associated subcatchment area.

- FMA1 – West Gosford Industrial Area - *G Lower Narara Creek*
- FMA2 – Rowena Road Protection Area - *G Lower Narara Creek*
- FMA3 – Manns Road / Deane Street / Narara Valley Drive Floodway Area - *G Lower Narara Creek*
- FMA4 – Brooks Avenue Flood Storage Area - *D Wyoming Creek*
- FMA5 – Carrington Street Floodway and Narara Valley High School - *C Fountain Creek*
- FMA6 – Koninderie Parade Channel - *B Upper Narara Creek*
- FMA7 – Wyoming Creek - *D Wyoming Creek*
- FMA8 – Wingello Creek - *E Wingello Creek*
- FMA9 – Brady's Gully Creek - *F Brady's Gully Creek*
- FMA10 – Kathleen Morreau Road - *B Upper Narara Creek*
- FMA11 – Siletta Road Retarding Basin - *B Upper Narara Creek*
- FMA12 – North Gosford Hospital Site - *G Lower Narara Creek*

Four additional Flood Management Areas were identified:

- FMA13 – West Narara Creek - *A West Narara Creek*
- FMA14 – Fountain Creek - *C Fountain Creek*
- FMA15 – Mountain View Avenue - *B Upper Narara Creek*



## RESULTS OF COMMUNITY FLOOD SURVEY

### ■ FMA16 – Slyvan Valley Close - B Upper Narara Creek

The following sections provide analysis of resident responses for various subcatchments.

## 2.0 A - WEST NARARA CREEK SUBCATCHMENT

The West Narara Creek subcatchment contains FMA 13 as shown on Figure 2. Sixteen residents in the West Narara Creek Subcatchment responded to the community survey.

The distribution of responses in Flood Management Areas and other areas is discussed below:

### 2.1 FMA13 – West Narara Creek

The portion of West Narara Creek runs west-east and is bounded in the north by Deane Street and to the south by Fountains Road. There were ten reports of flooding on private properties fronting onto Deane Street and Fountains Road.

Ten respondents noted non-specific flooding on Fountains Road. Two respondents stated that this cut off access to Narara Valley High School. The precise location of the flooding is unclear from the residents responses, however likely refers to the eastern end of the road.

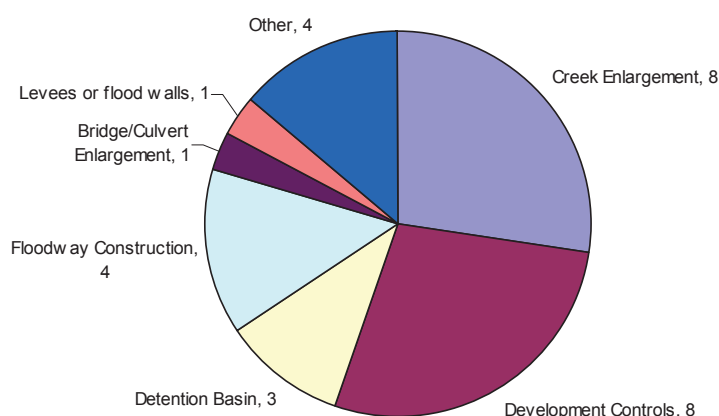
### 2.2 Other Flood Prone Areas as Indicated by Respondents

No other flood prone areas were identified by the survey in the West Narara Creek Catchment.

Other important information received from the residents is discussed below.

### 2.3 Flood Management Measures

Ten respondents in the subcatchment presented opinions on the most suitable flood mitigation measures. Many of these selected more than one measure. These results are presented in the pie chart below.



*Chart 1: Pie Chart showing Flood Mitigation Measures Recommended by Respondents in the West Narara Creek Catchment*

The survey results showed the preferred mitigation measures were Creek Enlargement and Development Controls.

The responses included in “Other” are:

- “Reinstate the old Creek line away from houses on Fountains Road”, one respondent;
- “Sand Dredge in Narara Creek”, one respondent; and
- “Clear/ Clean the Creek”, two respondents.



### 2.4 Development Control

Thirteen (13) respondents answered the question about development in flood prone areas follows:

- 5 believed development should be allowed after the application of appropriate development controls; and
- 8 believed no development should be allowed in these areas.

### 2.5 Flood Warning

Six respondents (6) answered this question of which two (2) had never received a flood warning. Respondents who received flood warnings often received them from multiple sources. Of the four who had received flood warnings the following sources were noted:

- Four (4) received a warning from Local Radio/Television;
- One (1) from the Bureau of Meteorology (BOM); and
- One (1) from the State Emergency Services (SES).

### 2.6 Flood Awareness

Of the fourteen (14) respondents who answered this question most were aware of the risk of flooding to their properties. Survey results are summarised as follows:

- Four (4) respondents did **not** think their property was liable to flood, however two of these were partially within the preliminary 1%AEP flood extent.
- Ten (10) respondents believed their property was liable to flood, however preliminary modelling suggested that two (2) of these were not in the 1%AEP flood plain.

### 2.7 Community Education

The twelve (12) respondents who answered this question selected multiple methods they preferred for communication. The results of the survey are presented in the bar chart below.

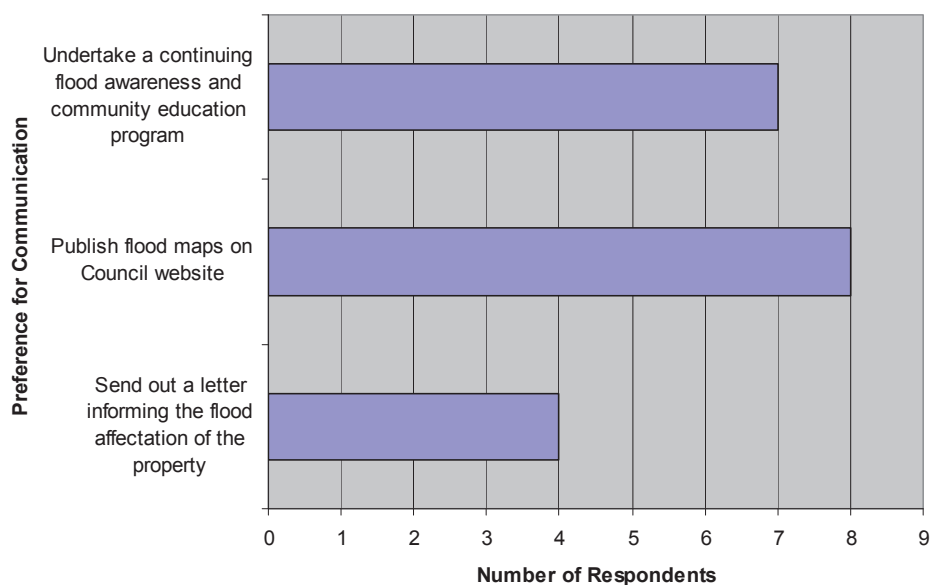


Chart 2: Bar Chart showing preferred methods for communication in the West Narara Creek Subcatchment.





### 3.0 B UPPER NARARA CREEK SUBCATCHMENT

The Upper Narara Creek subcatchment contains the five FMAs FMA 6, FMA10, FMA11, FMA15, and FMA16, respectively, *Koninderie Parade Channel*, *Kathleen Morreau Road*, *Siletta Road Retarding Basin*, *Mountain View Avenue* and *Slyvan Valley Close*.

These are shown on Figure 3. Eighty-eight (88) residents in the West Narara Creek Subcatchment responded to the community survey.

The distribution of responses in Flood Management Areas and other areas is discussed below:

#### 3.1 FMA6 – Koninderie Parade Channel

The majority of reported flooding in the Upper Narara Creek Subcatchment related to FMA6. This area is shown in Figure 3, and can be described as encompassing the length of Koninderie Parade and a wide margin around Koninderie Parade. The area includes Narara Station and Narara Valley Drive where it crosses Narara Creek near Narara Station. Flooding can be summarised as follows:

- Properties in the FMA, 17 reports of flooding at 13 different properties in the FMA;
- Koninderie Parade, 7 general and specific reports of flooding in this area;
- Narara Valley Drive bridge over Narara Creek, four specific reports of flooding;
- Reserve next to Narara Valley Drive bridge, one report of flooding;
- Narara Valley Drive, 9 non-specific reports of flooding on this road, likely relating to this FMA.
- Narara Valley Drive from Yurunga Street to Deane Street, four reports of flooding on this stretch of road;
- Narara Train Station, one report of flooding;
- Haggerty Close, one report of flooding; and
- Reserve south of Haggerty Close, one report of flooding.

The area around the southern portion of Koninderie Parade, including the western side of Narara Station and Narara Valley Drive where it crosses Narara Creek near Narara Station is located almost entirely within the 1%AEP Floodplain.

#### 3.2 FMA10 – Kathleen Morreau Road

There were four (4) reports of flooding in this area. The areas reported as flooded included two private residences and two report of flooding at the culvert on Kathleen Morreau Road.

#### 3.3 FMA11 – Siletta Road Retarding Basin

There were no reports of flooding in the Siletta Road Retarding Basin FMA.

#### 3.4 FMA15 – Mountain View Avenue

The community flood survey responses included a total of three (3) reports of flooding in FMA15.

- Flooding/Overland flow was observed by one respondent on Mountain View Avenue. This note was accompanied by the qualification that “Mountain View Avenue is a short street with a steep slope. Stormwater runs off easily into the creek”;
- Overland flow observed at the rear of one property in Pinetop Avenue;
- 3-4ft of water was reported at the rear of a property in the lower reaches of the unnamed tributary passing through FMA15.





### 3.5 FMA16 – Sylvan Valley Close

There were no reports of flooding in the Sylvan Valley Close FMA.

### 3.6 Other Flood Prone Areas as Indicated by Respondents

The survey results highlighted flooding in other areas within the Upper Narara Creek Subcatchment:

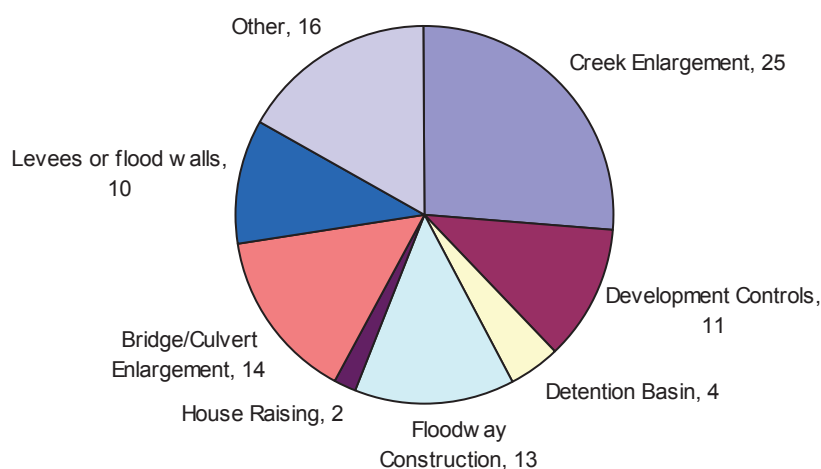
- Five respondents reported general flooding of Railway Crescent.
- Two reports of flooding at Lisarow shopping centre carpark.
- Three reports of overland flow on and in the vicinity of Neeworra Road and two reports of flooding of residential dwellings down stream of these locations. The path of the unnamed tributary can be traced by the locations of the reported flood locations 164f, 339, 223, 30 and 209a.

Flooding was reported at several other points in the Upper Narara Creek Catchment, however there were no other obvious clusters of reported floods.

Other important information received from the residents is discussed below.

### 3.7 Flood Management Measures

Fifty-six (56) respondents in the Upper Narara Creek Subcatchment answered the question relating to possible mitigation measures. Respondents who answered this question often selected one or more mitigation measure they considered would ease flooding. These results are presented in the pie chart below.



*Chart 3: Pie Chart showing Flood Mitigation Measures Recommended by Respondents in the Upper Narara Creek Subcatchment*

A large number of respondents nominated flood mitigation measures that were not listed on the questionnaires. The measures they recommended are listed below:

- Clearing/Cleaning Creek of Rubbish/Debris/Weeds, nine (9) respondents;
- Raising Roads e.g. Carrington St, Showground Rd, two (2) respondents;
- Curbing & Proper drainage “many flood-prone streets have dirt edges e.g. Deane St, Hanlan Street”, two (2) respondents;
- Council purchase of flood affected properties, one (1) respondent;



## RESULTS OF COMMUNITY FLOOD SURVEY

- Creek Dredging, one (1) respondent; and
- Drain storm water into creek, from affected properties, one (1) respondent.

Creek enlargement is the preferred mitigation method for the Upper Narara Creek Subcatchment.

### 3.8 Development Control

Seventy-seven (77) respondents answered the question about development in flood prone areas follows:

- Twenty-eight (28) believed development should be allowed after the application of appropriate development controls;
- Forty-eight (48) believed no development should be allowed in these areas; and
- One (1) respondent believed Council should not impose any controls on development in flood prone areas.

### 3.9 Flood Warning

Thirty respondents (30) answered this question of which nineteen (19) had never received a flood warning. Respondents who received flood warnings often received them from multiple sources. Of the eleven (11) who had received flood warnings the following sources were noted:

- Ten (10) received a warning from Local Radio/Television;
- One (1) from the Bureau of Meteorology (BOM);
- One (1) from local knowledge; and
- One (1) from neighbours.

### 3.10 Flood Awareness

Of the seventy-eight (78) respondents who answered this question most were aware of the risk of flooding to their properties based on preliminary modelling. Survey results are summarised as follows:

- Sixty (60) respondents did **not** think their property was liable to flood, however preliminary modelling suggested that five (5) of these were partially within the 1%AEP flood plain.
- Eighteen (18) respondents believed their property was liable to flood, however preliminary modelling suggested that four (4) of these were not in the 1%AEP flood plain.

### 3.11 Community Education

The seventy-six (76) respondents who answered this question selected multiple methods they preferred for communication. The results of the survey are presented in the bar chart below.



## RESULTS OF COMMUNITY FLOOD SURVEY

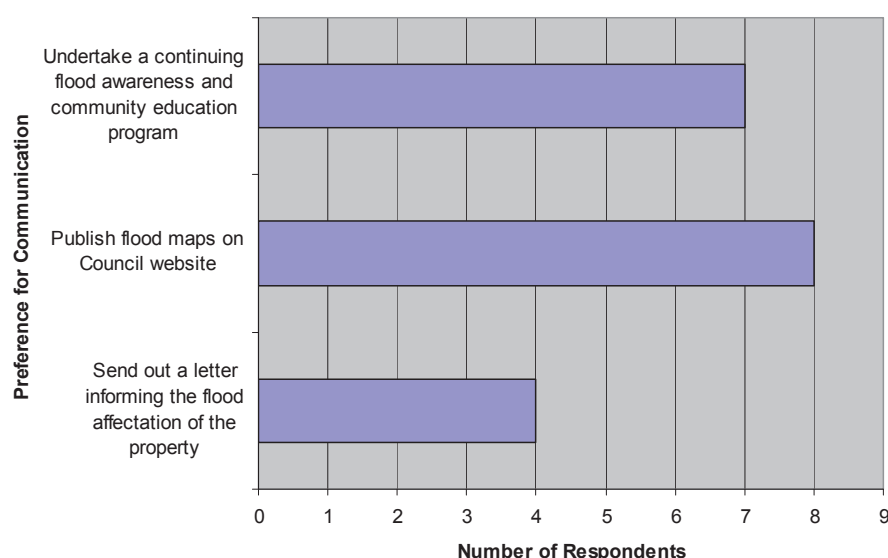


Chart 4: Bar Chart showing preferred methods for communication in the Upper Narara Creek Subcatchment

### 4.0 C FOUNTAIN CREEK SUBCATCHMENT

The Fountain Creek subcatchment contains FMA 5, *Carrington Street Floodway and Narara Valley High School* and FMA14, *Fountain Creek* as shown on Figure 4. Forty-three (43) respondents had addresses within the Fountain Creek Subcatchment.

The distribution of responses in Flood Management Areas and other areas is discussed below:

#### 4.1 FMA5 – Carrington Street Floodway and Narara Valley High School

This area is located predominantly in the C Fountain Creek Subcatchment however also covers the lower reaches of two other subcatchments. There were numerous reports of flooding in this FMA.

The most numerous reports of flooding within the Fountain Creek Subcatchment relate to Carrington Street. Carrington Street is located in both the Fountain Creek Subcatchment and the Wyoming Creek Subcatchment, with the eastern half of Carrington Street within the 1%AEP floodplain. Note that flooding in the lower (eastern) part of Carrington Street is discussed with FMA 3 in Section 8.3 of this report. A summary of reported floods in FMA5 includes:

##### Carrington Street and Pandala Road

- Five (5) specific reports of flooding between 63 and 93 Carrington Street;
- Two (2) reports of flooding at the culvert on Carrington Street, near southern boundary of Narara Valley High;
- Twenty-three (23) non-specific reports of flooding on Pandala Road and Carrington Street;
- One (1) report that the entire length of Carrington Street was flooded in a storm in 1970;
- One (1) report of flooding from the Carrington Street culvert bridge Manns Road; and
- Five (5) reports of flooding at the corner of Pandala and Carrington Streets.

##### School and Community Centre

- Three (3) general and one specific report of flooding at Narara Valley High School.



## RESULTS OF COMMUNITY FLOOD SURVEY

- Three (3) specific reports of flooding at the community centre and carpark on the corner of Pandala Road and Carrington Street
- Three (3) reports of flooding at the oval adjacent to the Community Centre

### 4.2 FMA14 – Fountain Creek

FMA14 includes several tributaries to Fountain Creek and is shown in Figure 4.

Flooding was reported at twenty-seven (27) private properties within FMA14. There were three (3) non-specific reports of flooding on Reeves Street, and notably there were twelve (12) specific reports of flooding on Reeves Street at the culvert/causeway.

### 4.3 Other Flood Prone Areas as Indicated by Respondents

The majority of reported floods in the Fountain Creek Subcatchment are captured by FMA5 and FMA14. Two other areas with low density clusters of reported floods are also noted below.

#### Rear of properties 0-26 Reeves Street and Anne Close

On the northern side of the southern portion of Reeves Street, Narara, flooding was reported at three specific addresses, and non-specifically in Anne Close and the general area. Four of these five reports of flooding were made by the same respondent.

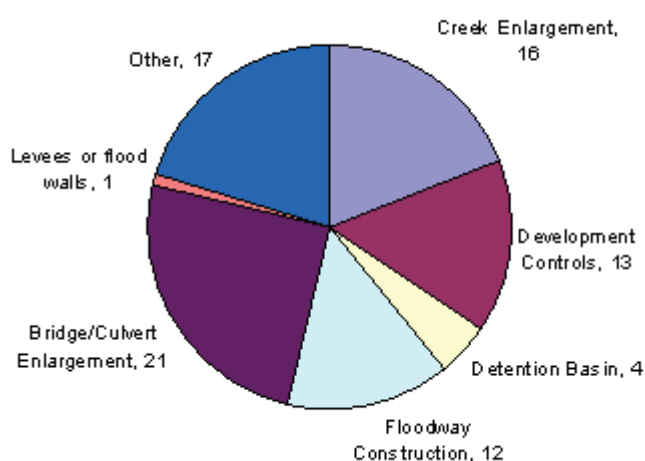
#### Unnamed Tributary to Fountain Creek

Three (3) adjacent properties to the north of the western end of Narara Creek Road reported flooding at their properties. This area is west of FMA14, and therefore some distance upstream. One of the reports of flooding in this area by Respondent 48a included above floor level flooding.

Other important information received from the residents is discussed below.

### 4.4 Flood Management Measures

Thirty-five (35) respondents for the Fountain Creek Subcatchment answered the question on the flood mitigation measures they considered most appropriate. Respondents often selected one or more mitigation measures they considered would ease flooding. These results are presented in the pie chart below.



*Chart 5: Pie Chart showing Flood Mitigation Measures Recommended by Respondents in the Fountain Creek Subcatchment*



## RESULTS OF COMMUNITY FLOOD SURVEY

The survey results showed the preferred mitigation measure was Bridge/Culvert Enlargement.

A total of seventeen (17) responses not prescribed in the survey were noted by respondents and included in the “Other” category shown on the pie chart above. These are:

- Clearing/cleaning Creeks/Storm drains of weeds/debris/rubbish, six respondents;
- “Dredge [Narara] Creek”, two respondents;
- “[Build] a bridge over the [Reeves Street] culvert”, one respondent;
- “Raise level of Carrington Street”, one respondent;
- “Improve passage way (open drainage) from Reeves Street to Carrington Street”, one respondent;
- “Enlarge and improve Carrington Street drainage”, one respondent;
- “Better drainage works... at northern end of Cross Street (undeveloped portion intersecting with Carrington St)”, one respondent;
- “Reduced development in outer catchment areas”, one respondent;
- “Pipes laid on Reeves Street causeway”, one respondent;
- “Raise level of backyard”, one respondent; and
- “Lowering the level of the railway dam at the top of Reeves St”.

### 4.5 Development Control

Forty (40) respondents answered the question about development in flood prone areas follows:

- 23 respondents believed development should be allowed after the application of appropriate development controls; and
- 17 respondents believed no development should be allowed in these areas.

### 4.6 Flood Warning

Twenty-one (21) respondents answered this question of which seven (7) had never received a flood warning. Respondents who received flood warnings often received them from multiple sources. Of the fourteen who had received flood warnings the following sources were noted:

- Eleven (11) received a warning from Local Radio/Television;
- Two (2) from the Bureau of Meteorology (BOM);
- One (1) from Neighbours;
- One (1) from Police;
- One (1) from Friends; and
- One (1) from the State Emergency Services (SES).

### 4.7 Flood Awareness

Of the forty (40) respondents who answered this question many were **unaware** of the risk of flooding to their properties based on preliminary modelling. Survey results are summarised as follows:

- Nineteen (19) respondents did **not** think their property was liable to flood, however preliminary modelling suggested that fifteen (15) of these were partially within the 1%AEP flood plain.



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- Twenty-one (21) respondents believed their property was liable to flood, however preliminary modelling suggested that one (1) of these were not in the 1%AEP flood plain.

### 4.8 Community Education

The thirty-nine (39) respondents who answered this question selected multiple methods they preferred for communication. The results of the survey are presented in the bar chart below.

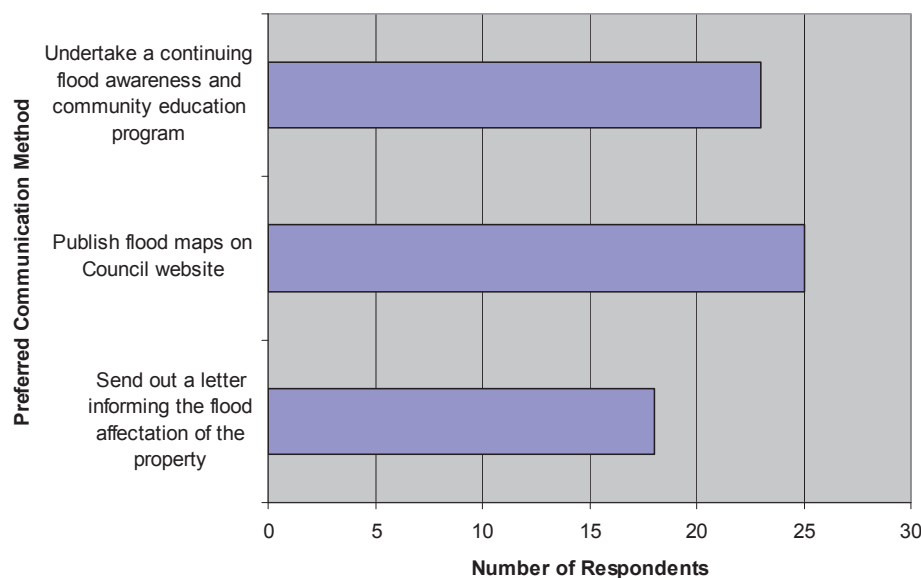


Chart 6: Bar Chart showing preferred methods for communication in the Fountain Creek Subcatchment

### 5.0 D WYOMING CREEK SUBCATCHMENT

The Wyoming Creek subcatchment contains FMA4 *Brooks Avenue Flood Storage Area* and FMA7 *Wyoming Creek* as shown on Figure 5. Forty eight (48) residents in the Wyoming Creek Subcatchment responded to the community survey.

The distribution of responses in Flood Management Areas and other areas is discussed below:

#### 5.1 FMA4 – Brooks Avenue Flood Storage Area

The Brooks Avenue Flood Storage Area runs north-west to south-east and is bounded by to the north by Pacific Highway and to the south by the railway. There were two (2) general reports of flooding within this flood management area: Pacific Highway and Brooks Ave.

#### 5.2 FMA7 – Wyoming Creek

The FMA7 Wyoming Creek runs east-west and consists of the floodplain and surrounding residential properties. There were thirty four (34) reports of flooding within the Wyoming Creek flood management area and thirteen (13) residents reported flooding on their property.

Seven (7) respondents noted non-specific flooding within the area at the following locations:

- Renwick Street;
- Giselle Ave;
- Chamberlain Road; and
- Day St.



## RESULTS OF COMMUNITY FLOOD SURVEY

Specific areas of flooding that were noted were Alan Davidson Oval and flooding behind the houses at 33 & 35 Crawford Crescent.

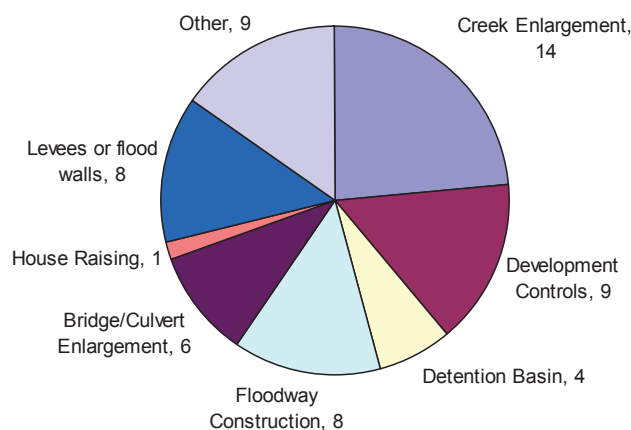
### 5.3 Other Flood Prone Areas as Indicated by Respondents

Three (3) respondents reported flooding outside of the Brooks Avenue Flood Storage Area or Wyoming creek flood management areas. Two of these respondents reported flooding on their properties. One specific point of flooding was reported at Wyoming Creek and Chamberlain Road.

Other important information received from the residents is discussed below.

### 5.4 Flood Management Measures

Thirty (30) respondents for the Wyoming Creek Subcatchment answered the question on the flood mitigation measures they considered most appropriate. Respondents often selected one or more mitigation measures they considered would ease flooding. These results are presented in the pie chart below.



*Chart 7: Pie Chart showing Flood Mitigation Measures Recommended by Respondents in the Wyoming Creek Subcatchment*

The survey results showed the preferred mitigation measure was Creek Enlargement.

A total of nine (9) responses not prescribed in the survey were noted by respondents and included in the "Other" category shown on the pie chart above. These are:

- "Clear/clean the Creek of weeds/debris/rubbish", five respondents;
- "Underground tanks", one respondent;
- "Parks - leave as wet land", one respondent;
- "Narara Creek could be weir so water could be used to irrigate ovals", one respondent; and
- "Dredge creek", one respondent.

### 5.5 Development Control

Forty-four (44) respondents answered the question about development in flood prone areas follows:

- Seventeen (17) respondents believed development should be allowed after the application of appropriate development controls;





## RESULTS OF COMMUNITY FLOOD SURVEY

- Twenty-five (25) respondents believed no development should be allowed in these areas; and
- Two (2) respondents believed that there should not be any control on development in the flood prone areas.

### 5.6 Flood Warning

Eighteen (18) respondents answered this question of which eleven (11) had never received a flood warning. Of the seven (7) who had received flood warnings the following sources were noted:

- Six (6) received a warning from Local Radio/Television; and
- One (1) from their Neighbour.

### 5.7 Flood Awareness

Of the forty-five (45) respondents who answered this question most respondents were aware of the risk of flooding to their properties based on preliminary modelling. Survey results are summarised as follows:

- Thirty-two (32) respondents did **not** think their property was liable to flood, however preliminary modelling suggested that seven (7) of these were partially or entirely within the 1%AEP flood plain.
- Thirteen (13) respondents believed their property was liable to flood, however preliminary modelling suggested that three (3) of these were not in the 1%AEP flood plain.

### 5.8 Community Education

The forty two (42) respondents who answered this question selected multiple methods they preferred for communication. The results of the survey are presented in the bar chart below.

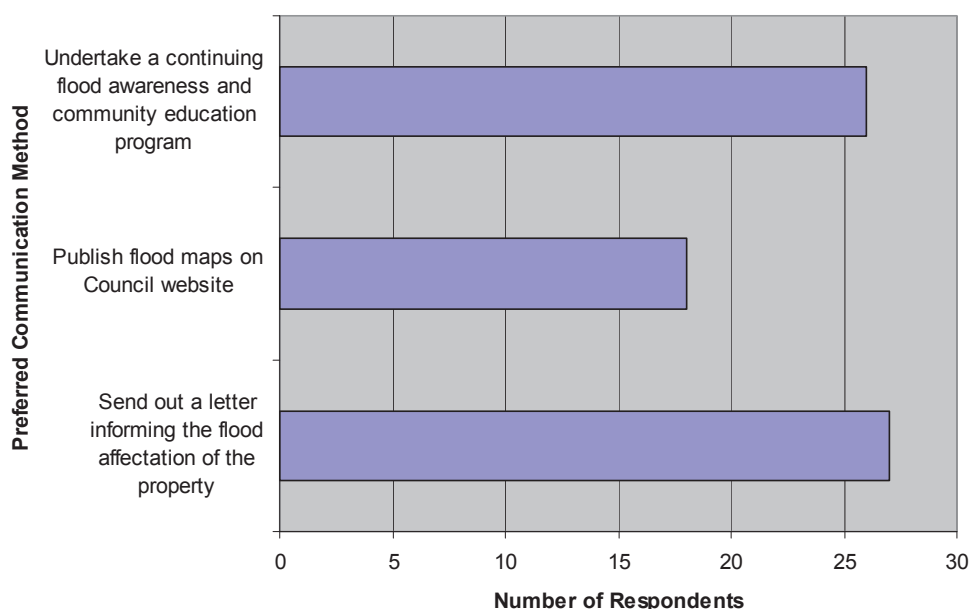


Chart 8: Bar Chart showing preferred methods for communication in the Wyoming Creek Subcatchment

## 6.0 E WINGELLO CREEK SUBCATCHMENT

The Wingello Creek subcatchment contains FMA8 *Wingello Creek* as shown on Figure 6. Thirty-nine (39) residents in the Wingello Creek Subcatchment responded to the community survey.





## RESULTS OF COMMUNITY FLOOD SURVEY

The distribution of responses in Flood Management Areas and other areas is discussed below:

### 6.1 FMA8 – Wingello Creek

The FMA8 Wingello Creek runs east-west and consists of the floodplain and surrounding residential properties. There were sixteen (16) reports of flooding within the Wingello Creek flood management area and eight (8) residents reported flooding on their property.

Three (3) respondents noted non-specific flooding within the area at the following locations:

- Roselands Ave; and
- Wingello Reserve, North of Dalton St.

Specific areas of flooding that were noted were:

- Rainforest Road at Wingello Creek tributary; and
- Maidens Brush Road at Wingello Creek tributary.

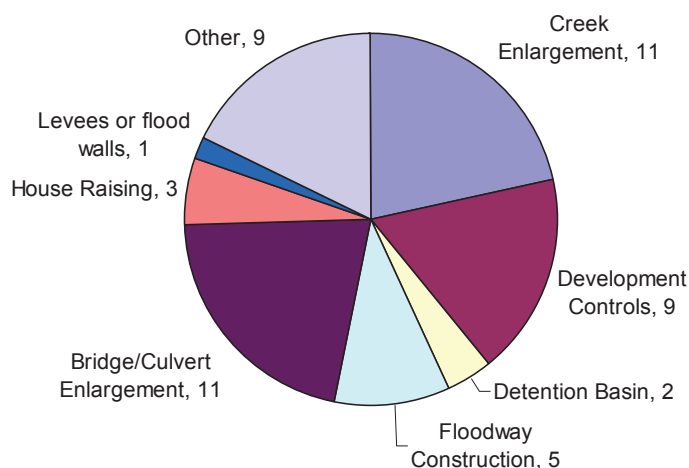
### 6.2 Other Flood Prone Areas as Indicated by Respondents

Four respondents reported flooding outside of the Wingello Creek flood management area. Two of these respondents reported flooding on their properties. One respondent reported flooding at Turpentine St. at Wingello Creek and one respondent reported flooding along Akora Road.

Other important information received from the residents is discussed below.

### 6.3 Flood Management Measures

Twenty-eight (28) respondents for the Wingello Creek Subcatchment answered the question on the flood mitigation measures they considered most appropriate. Respondents often selected one or more mitigation measures they considered would ease flooding. These results are presented in the pie chart below.



*Chart 9: Pie Chart showing Flood Mitigation Measures Recommended by Respondents in the Wingello Creek Subcatchment*

The survey results showed the preferred mitigation measures were Creek Enlargement and Bridge/Culvert Enlargement.

A total of nine (9) responses not prescribed in the survey were noted by respondents and included in the "Other" category shown on the pie chart above. These are:



- “Clear/clean the Creek of weeds/debris/rubbish”, eight respondents; and
- “Keep roads clean”, one respondent.

### 6.4 Development Control

Thirty-five (35) respondents answered the question about development in flood prone areas follows:

- Thirteen (13) respondents believed development should be allowed after the application of appropriate development controls;
- Twenty-one (21) respondents believed no development should be allowed in these areas; and
- One (1) respondent believed that there should not be any control on development in the flood prone areas.

### 6.5 Flood Warning

Fourteen (14) respondents answered this question of which eleven (11) had never received a flood warning. Respondents who received flood warnings often received them from multiple sources. Of the three who had received flood warnings the following sources were noted:

- Three (3) received a warning from Local Radio/Television;
- One (1) from the Bureau of Meteorology (BOM); and
- One (1) from the State Emergency Services (SES).

### 6.6 Flood Awareness

Of the thirty-four (34) respondents who answered this question most were aware of the risk of flooding to their properties based on preliminary modelling. Survey results are summarised as follows:

- Twenty-seven (27) respondents did **not** think their property was liable to flood, however preliminary modelling suggested that six (6) of these were at least partially within the 1%AEP flood plain.
- Seven (7) respondents believed their property was liable to flood, however preliminary modelling suggested that six (6) of these were not in the 1%AEP flood plain.

### 6.7 Community Education

The thirty-seven (37) respondents who answered this question selected multiple methods they preferred for communication. The results of the survey are presented in the bar chart below.



## RESULTS OF COMMUNITY FLOOD SURVEY

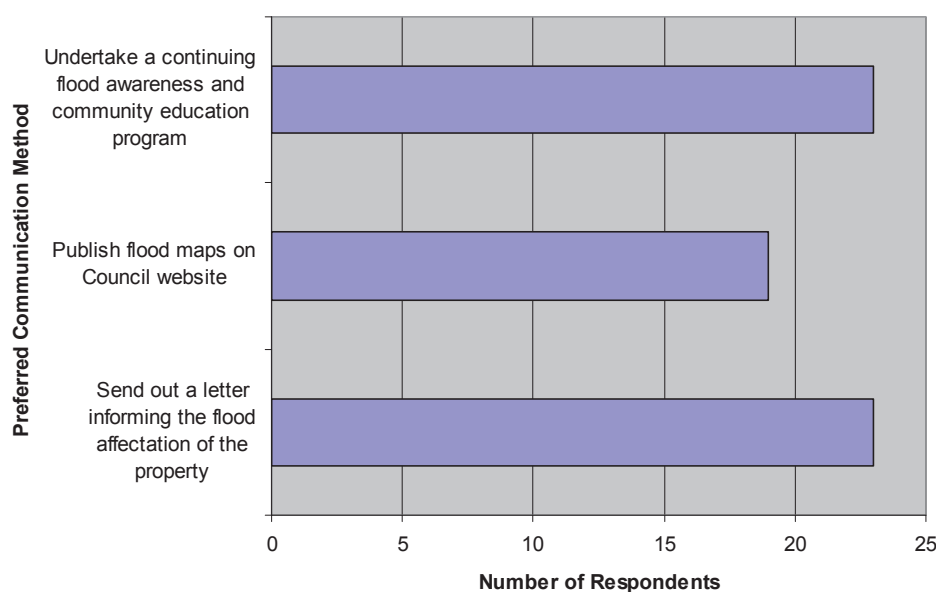


Chart 10: Bar Chart showing preferred methods for communication in the Wingello Creek Subcatchment

## 7.0 F BRADY'S GULLY CREEK SUBCATCHMENT

The Brady's Gully Creek subcatchment contains FMA9 *Brady's Gully Creek* and FMA12 *North Gosford Hospital* as shown on Figure 7. Thirty seven (37) residents in the Brady's Gully Creek Subcatchment responded to the community survey.

The distribution of responses in Flood Management Areas and other areas is discussed below:

### 7.1 FMA9 – Brady's Gully Creek

The FMA9 Brady's Gully Creek runs south-east to north-west and consists of the floodplain and surrounding residential properties. There were fourteen (14) reports of flooding within the Brady's Gully Creek flood management area and six (6) residents reported flooding on their property and their neighbours.

Four (4) respondents reported flooding along Kirkness Ave and Callemondah Ave and one respondent noted flooding along Cary St. and Henry Parry Dr.

Specific areas of flooding that were noted were:

- Brady's Gully Road and Jarrett St; and
- Blanche St. and North Crescent.

### 7.2 FMA12 – North Gosford Hospital Site

No reports were made of flooding within the North Gosford Hospital Flood Management Area.

### 7.3 Other Flood Prone Areas as Indicated by Respondents

Thirteen respondents reported flooding outside of the Brady's Gully Creek and North Gosford Hospital flood management areas. Four of these respondents reported flooding on their properties. The other reported locations where flooding was reported were:

- North Crescent;
- Callemondah Ave;
- Belltrees Cl and behind the houses on Belltrees Cl along Brady's Gully Creek;

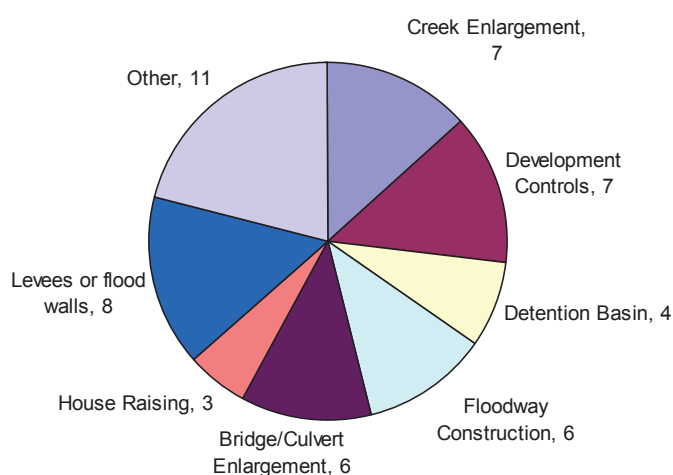


- Brady's Gully Reserve.

Other important information received from the residents is discussed below.

### 7.4 Flood Management Measures

Nineteen (19) respondents for the Brady's Gully Creek Subcatchment answered the question on the flood mitigation measures they considered most appropriate. Respondents often selected one or more mitigation measures they considered would ease flooding. These results are presented in the pie chart below.



*Chart 11: Pie Chart showing Flood Mitigation Measures Recommended by Respondents in the Brady's Gully Creek Subcatchment*

A total of eleven (11) responses not prescribed in the survey were noted by respondents and included in the "Other" category shown on the pie chart above. These are:

- Clearing/cleaning Creeks/Storm drains of weeds/debris/rubbish, seven respondents;
- "Piping the two existing open drains" [at Belltrees Close, North Gosford], one respondent;
- "Tree planting and wetlands", one respondent;
- "Kerb and gutters" [in the vicinity of Blanche Street], one respondent; and
- "Dredge Narara Creek", one respondent.

Respondent 316 noted: "The open drains in Blanche St are overgrown and are in urgent need of cleaning and upgrading. The estate is also in urgent need of kerb and guttering to avoid run off from streets into properties." This sentiment was repeated by other respondents in the area.

### 7.5 Development Control

Twenty-eight (28) respondents answered the question about development in flood prone areas follows:

- Ten (10) respondents believed development should be allowed after the application of appropriate development controls; and
- Eighteen (18) respondents believed no development should be allowed in these areas.



### 7.6 Flood Warning

Sixteen (16) respondents answered this question of which seven (7) had never received a flood warning. Respondents who received flood warnings often received them from multiple sources. Of the nine who had received flood warnings the following sources were noted:

- Eight (8) received a warning from Local Radio/Television;
- Two (2) from the Bureau of Meteorology (BOM);
- One (1) from the State Emergency Services (SES); and
- One (1) from the School during the 1950's and 1960's.

### 7.7 Flood Awareness

Of the thirty-two (32) respondents who answered this question most respondents were aware of the risk of flooding to their properties based on preliminary modelling. Survey results are summarised as follows:

- Twenty-nine (29) respondents did **not** think their property was liable to flood, however preliminary modelling suggested that seven (7) of these were partially within the 1%AEP flood plain.
- Three (3) respondents believed their property was liable to flood, however preliminary modelling suggested that one (1) of these was not in the 1%AEP flood plain.

### 7.8 Community Education

The twenty seven (27) respondents who answered this question selected multiple methods they preferred for communication. The results of the survey are presented in the Bar Chart below.

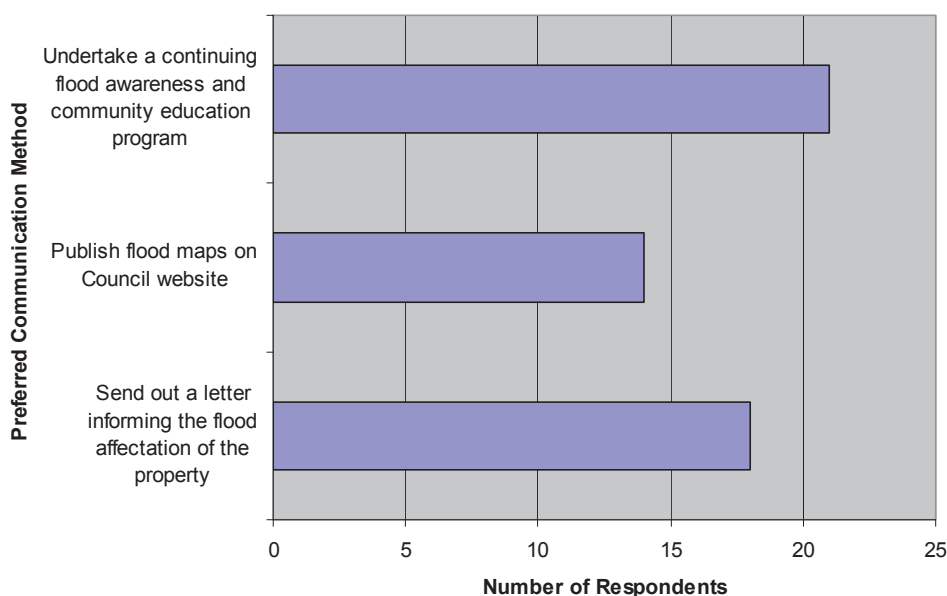


Chart 12: Bar Chart showing preferred methods for communication in the Brady's Gully Creek Subcatchment

## 8.0 G LOWER NARARA CREEK SUBCATCHMENT

The Lower Narara Creek subcatchment contains three FMAs including: FMA 1- *West Gosford Industrial Area*; FMA2 – *Rowena Road Protection Area*; and FMA3 – *Manns Road / Deane Street / Narara Valley Drive Floodway Area*. The Lower Narara Creek Subcatchment including these FMAs is presented in Figure 8.



Fifty-six (56) survey respondents had addresses in the Lower Narara Creek Subcatchment.

The distribution of responses in Flood Management Areas and other areas is discussed below:

### 8.1 FMA1 – West Gosford Industrial Area

There were fourteen (14) reports of flooding within the West Gosford Industrial Flood Management Area and two (2) residents reported flooding on their property.

Nine (9) respondents noted non-specific flooding within the area at the following locations:

- Manns Rd near Yandina Rd;
- Tathra St near Yandina Rd;
- Dignity Crescent; and
- Manns Rd.

A specific area of flooding that was noted was Central Coast Brick Supplies at the corner of Dell Rd and Manns Rd.

### 8.2 FMA2 – Rowena Road Protection Area

The survey results included twelve reports of flooding in the Rowena Road Protection Area. Reported flooding in the area includes:

- Reports of flooding at five (5) separate residential locations; and
- 5 reports of general and specific flooding of Rowena Road.

Adjacent to the Rowena Road FMA, there were five reports of flooding at Gavenlock Oval.

### 8.3 FMA3 – Manns Road / Deane Street / Narara Valley Drive Floodway Area

This FMA is located predominantly in the G Lower Narara Creek Subcatchment however also covers the lower reaches of three other subcatchments. There were 16 specific reports of flooding in this area. The main areas of concern were:

- Four (4) specific reports of flooding in the lower part of Carrington Street. (Reports of flooding on other parts of Carrington Street are discussed in Section 4.1.)
- Eight (8) specific reports of flooding on properties in the FMA
- Four (4) specific reports of flooding at the road bridge near the shops on Deane Street.
- Four (4) respondents noted non-specifically that they had observed Manns Road flood.
- Eight (8) respondents noted non-specifically that they had observed Deane Street flood. It is assumed they are refereeing to the lower portion of the street

#### Hanlan Street South

Hanlan Street South is located adjacent to FMA3. The flood study results for this road are discussed below.

There were five (5) reports of flooding at specific locations and fourteen (14) non-specific reports of flooding on Hanlan Street. The specific reports of flooding on this street pointed to:

- the corner of Fountains Road and Hanlan Street South; and
- the bridge immediately north of the corner of Fountains Road and Hanlan Street South.



### 8.4 Other Flood Prone Areas as Indicated by Respondents

The survey results included reports of flooding at various properties along the length of Narara River. The locations of these floods are shown on Figure 8. These results are not discussed in further detail in this report. Clusters of reports of flooding within the Lower Narara Creek Subcatchment not included in the three FMAs discussed above include:

#### Showground Road

Reports of flooding along showground road are summarised as follows:

- 30 non-specific reports of Flooding on Showground Road;
- 7 specific reports of flooding at the corner of Maliwa Road and Showground Road; and
- 2 specific reports of flooding near the Skate Park.

#### Industrial Area accessed by Glennie Street West

The industrial area accessed by Glennie Street West and including the properties serviced by Tatura Avenue, Wollong Street, Kirrawee Road and Birru Road had a cluster of reported floods.

The survey responses included sixteen (16) specific and two (2) non-specific reports of flooding in this area. Flooding was reported at ten (10) commercial premises.

See Figure xx for locations of the reported floods.

#### End of Jirrang Road and East of Manns Road

The area bounded by Narara Creek and Manns Road, and south of Jirrang Road is largely undeveloped. There were 5 specific and 2 non-specific reports of flooding in this area.

#### Central Coast Highway and Racecourse Road

Five (5) Survey respondents noted that the intersection between the Central Coast Highway (also referred to as the Pacific Highway) and Racecourse Road was regularly flooded. One respondent noted flooding at their property adjacent to this intersection.

Other important information received from the residents is discussed below.

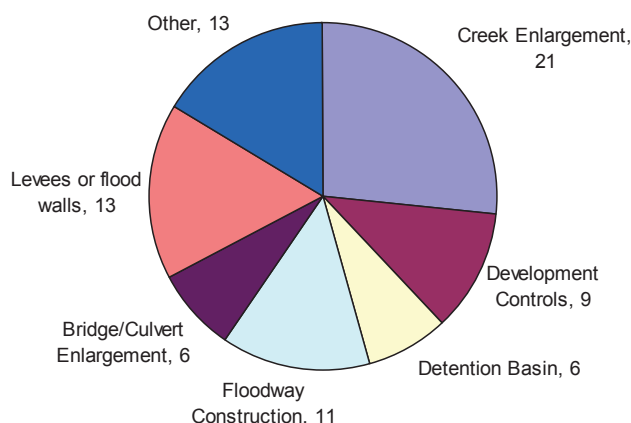
### 8.5 Flood Management Measures

Forty-three (43) respondents in the Lower Narara Creek Subcatchment answered the question relating to possible mitigation measures. Respondents who answered this question often selected one or more mitigation measure they considered would ease flooding. These results are presented in the pie chart below.





## RESULTS OF COMMUNITY FLOOD SURVEY



*Chart 13: Pie Chart showing Flood Mitigation Measures Recommended by Respondents in the Lower Narara Creek Subcatchment*

A total of thirteen (13) responses not prescribed in the survey were noted by respondents and included in the “Other” category shown on the pie chart above. These are:

- Creek Dredging eg. Fagan Bay and Narara Creek “as far as Maliwa Road”, five respondents;
- Clearing/Cleaning Creek of Rubbish/Debris/Weeds, three respondents;
- Raising Roads, one respondent;
- House Raising, one respondent;
- Monitor water craft speeds to reduce erosion of creek banks, one respondent;
- Construct retaining walls on creek banks, one respondent; and
- Demolition of the train bridge across the mouth of the river, one respondent;

Interestingly, Respondent 17 who advocates dredging of Narara Creek states,

“Development over the years within this area has deposited silt that has blocked the [Narara River] outlet. In my youth I was on a yacht that was built up the creek and it was towed down to Brisbane water 5' {feet} draught now have trouble with outboard motor.”

Creek enlargement is the preferred mitigation method for the Upper Narara Creek Subcatchment.

### 8.6 Development Control

Forty-two (42) respondents answered the question about development in flood prone areas follows:

- Twenty-seven (27) believed development should be allowed after the application of appropriate development controls; and
- Fifteen (15) believed no development should be allowed in these areas.

### 8.7 Flood Warning

Twenty-three (23) respondents answered this question of which eleven (11) had never received a flood warning. Respondents who received flood warnings often received them from multiple sources. Of the twelve (12) who had received flood warnings the flowing sources were noted:





## RESULTS OF COMMUNITY FLOOD SURVEY

- Nine (9) received a warning from Local Radio/Television;
- Three (3) from the Bureau of Meteorology (BOM);
- One (1) from Gosford Council;
- One(1) from a warning siren on the creek in the park;
- One (1) from the State Emergency Services (SES); and
- One (1) from “looking out the window”.

### 8.8 Flood Awareness

Of the fifty-one (51) respondents who answered this question several were unaware of the risk of flooding to their properties based on preliminary modelling. Survey results are summarised as follows:

- Twenty-nine (29) respondents did **not** think their property was liable to flood, however preliminary modelling suggested that twelve of these were at least partially within the 1%AEP flood plain. Six of these respondents had properties located entirely within the preliminary modelled 1%AEP flood plain.
- The twenty-two (22) respondents who believed their property was liable to flood all had properties located partially or entirely within the preliminary modelled 1%AEP flood plain.

### 8.9 Community Education

The forty-nine (49) respondents who answered this question selected multiple methods they preferred for communication. The results of the survey are presented in the bar chart below.

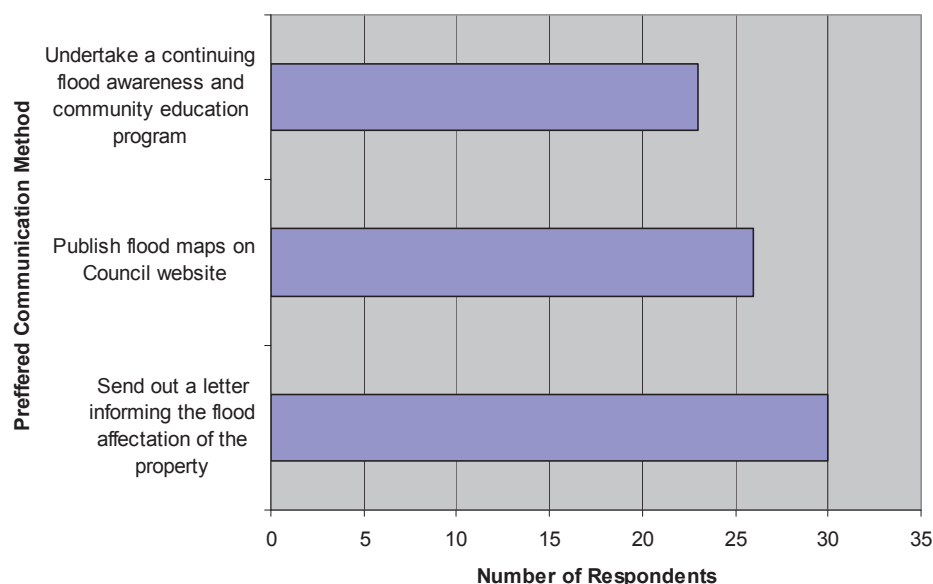


Chart 14: Bar Chart showing preferred methods for communication in the Brady's Gully Creek Subcatchment

### 9.0 FLOOD DATA USED FOR MODEL CALIBRATION

The main reported flood events occurred in February 1992 and June 2007. Floods were reported every June since 2005; however the 2007 June long weekend was widely reported as the most significant remembered flood.



## RESULTS OF COMMUNITY FLOOD SURVEY

Respondents also commented that there is a connection between King Tides and heavy rain and that the most severe flooding occurs when both of these events happen simultaneously.

The responses that outlined dates of flooding are provided in Appendix D.

### 10.0 REPORTED PROPERTY DAMAGE

Sixty-five respondents throughout the catchment reported damage to their property. Property damages included damage to backyards and gardens, outside property, garages, cars and houses. Forty three respondents reported damage to their backyards and gardens including fences, BBQ patio areas, arbours and pools. Other outside property damage included sheds, livestock, retaining walls, dunny and clothesline.

Sixteen respondents identified damage to their garage which included damage to the concrete slab and driveways and garage doors. Items within the garages were also damaged which included electronics/appliances, tools, furniture and carpet. Three respondents reported damage to their cars.

Six respondents reported damage to their houses which included damage to carpets, furniture, kitchens, cracked walls, exterior paint and supports under the house. One respondent reported a tree falling on their house.

The cost of damages ranged from \$200 to approximately \$400,000.

The responses that outlined property damages are provided in Appendix E.



### Report Signature Page

**GOLDER ASSOCIATES PTY LTD**

Justin Bell  
Senior Environmental Engineer

AWS:MK/HR/aws:mk

A.B.N. 64 006 107 857

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# APPENDIX A

## Community Flood Survey

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

- Q1.** Could you please provide us with your contact details as we may need to verify some of the information with you (Your contact details will remain completely CONFIDENTIAL).

Name: .....

Address: .....

.....

.....

Day time phone number: .....

E-mail: .....

- Q2.** How long have you lived / worked / shopped / run a business in the study area?

..... months

..... years

- Q3.** Have you ever experienced flooding at your property?

☐ YES

☐ NO (If NO, Please go to Q7)

If you answered YES, please give us the specific time of flooding as best as you can remember. Please also circle the largest flood in the list.

No.	Date	Time of the day
1		
2		
3		
4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

**Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

**Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

**Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

**Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

**Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

**Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

**Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



# APPENDIX B

## Photographs Provided by Respondents



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 1 of 7:** provided by Respondent 75.

**Location:** Jarrett St and Bradys Gully Road, North Gosford

Photograph shows partially overgrown easement. Note that the respondent's concern was that trees in the easement had been removed and mulched, resulting in a change in the water course and erosion close to their property.



**Photograph 2 of 7:** provided by Respondent 75.

**Location:** Jarrett St and Bradys Gully Road, North Gosford

Photograph shows partially overgrown easement. Note that the respondent's concern was that trees in the easement had been removed and mulched, resulting in a change in the water course and erosion close to their property.





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 3 of 7:** provided by Respondent 75.

**Location:** Jarrett St and Bradys Gully Road, North Gosford

Photograph shows partially overgrown easement. Note that the respondent's concern was that trees in the easement had been removed and mulched, resulting in a change in the water course and erosion close to their property.



**Photograph 4 of 7:** provided by Respondent 75.

**Location:** Jarrett St and Bradys Gully Road, North Gosford

Photograph shows partially overgrown easement. Note that the respondent's concern was that trees in the easement had been removed and mulched, resulting in a change in the water course and erosion close to their property.





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 5 of 7:** provided by Respondent 75.

**Location:** Jarrett St and Bradys Gully Road, North Gosford

Photograph shows partially overgrown easement. Note that the respondent's concern was that trees in the easement had been removed and mulched, resulting in a change in the water course and erosion close to their property.



**Photograph 6 of 7:** provided by Respondent 75.

**Location:** Jarrett St and Bradys Gully Road, North Gosford

Photograph shows partially overgrown easement. Note that the respondent's concern was that trees in the easement had been removed and mulched, resulting in a change in the water course and erosion close to their property.





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 7 of 7:** provided by Respondent 75.

**Location:** Jarrett St and Bradys Gully Road, North Gosford

Photograph shows partially overgrown easement. Note that the respondent's concern was that trees in the easement had been removed and mulched, resulting in a change in the water course and erosion close to their property.



**Photograph 1 of 1:** provided by Respondent 83.

**Location:** Gosford Racecourse

Photograph shows Gosford Racetrack being flooded after receiving 388 mm of rain over a 24 hour period in July 2007.



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 1 of 7:** provided by Respondent 98.

**Location:** 11 Koninderie Pde Narara

Photograph showing water crossing the road outside 11 Koninderie Pde Narara



**Photograph 2 of 7:** provided by Respondent 98.

**Location:** 11 Koninderie Pde Narara

Photograph showing water crossing the road outside 11 Koninderie Pde Narara



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 3 of 7:** provided by Respondent 98.

**Location:** 11 Koninderie Pde Narara

Photograph showing water flooding into front garden of 11 Koninderie Pde Narara



**Photograph 4 of 7:** provided by Respondent 98.

**Location:** 11 Koninderie Pde Narara

Photograph showing water crossing the road outside 11 Koninderie Pde Narara





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 5 of 7:** provided by Respondent 98.

**Location:** Narara Valley Drive, Narara

Photograph showing the bridge across Narara Valley Drive near Narara Railway Station, the morning of the flood of February 1992.



**Photograph 6 of 7:** provided by Respondent 98.

**Location:** 11 Koninderie Pde Narara

Photograph showing flooding outside 11 Koninderie Pde, looking out from the veranda. The water easement is beyond the trees. This side of the trees is the road.



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 7 of 7:** provided by Respondent 98.

**Location:** 11 Koninderie Pde Narara

Photograph showing water crossing the road outside 11 Koninderie Pde Narara



**Photograph 1 of 1:** provided by Respondent 113.

**Location:** Entrance to Narara Station from Narara Valley Drive.

Photograph shows Narara Creek flooding onto Narara Valley Drive.





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 1 of 1:** provided by Respondent 119.

**Location:** Entrance to Narara Station from Narara Valley Drive.

Photograph shows Narara Creek flooding onto Narara Valley Drive.



**Photograph 1 of 1:** provided by Respondent 141.

**Location:** Aerial photograph of the Narara Creek area.


The photograph illustrates the respondent's thoughts on diverting the creeks flow back to its former position, away from the houses.



## APPENDIX B

### Photographs Provided by Respondents

15 Carrington St, Narara		Prepared on 14 November 2009	
Property Description			
UBD:	CCT77, A9	Lot Plan:	L6/DP771474
Zoning:	Scenic Protection		
Land Use:	General Rural		
Area:	18840 m <sup>2</sup>	VGM:	



Sales History:		
10/07/01		1
01/05/98		107,000

Photograph 1 of 1: provided by Respondent 142.

Location: 15 Carrington St, Narara

Photograph shows the council land in the area between the respondent's property and the creek that has been known to flood.

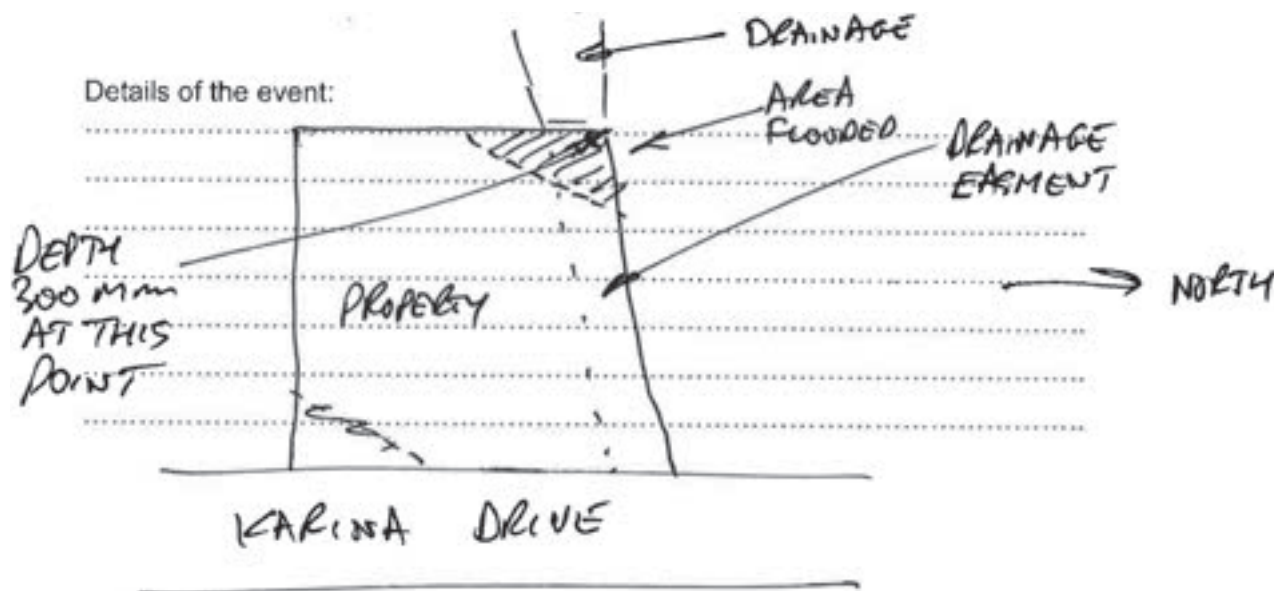


Diagram 1 of 1: provided by Respondent 157.

Location: 72 Karina Drive, Niagara Park





## APPENDIX B

### Photographs Provided by Respondents



Water  
level

**Photograph 1 of 2:** provided by Respondent 168.

**Location:** 60 Fountains Road, Narara

Photograph shows the water level of a flood as indicated by the mark left on a nearby tree (right hand side of photograph).



**Photograph 2 of 2:** provided by Respondent 168.

**Location:** 60 Fountains Road, Narara

Photograph shows the sand deposits left from flooding event.



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 1 of 2:** provided by Respondent 185.

**Location:** Carrington Street Narara, NSW 2250

Photograph showing the flooding of a driveway that comes off Carrington St, Houses 105 – 111, Creek line well over bridge.



**Photograph 2 of 2:** provided by Respondent 185.

**Location:** Carrington Street Narara, NSW 2250

Photograph showing floodwaters at Carrington Street Narara.



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 1 of 2:** provided by Respondent 202.

**Location:** 96 Reeves Street Narara

Photograph showing neighbours driveway from 96 Reeves Street Narara.



**Photograph 2 of 2:** provided by Respondent 202.

**Location:** 96 Reeves Street Narara

Photograph showing “Gum and fern are in a hexagonal treated pine garden down the front of our yard”





## APPENDIX B

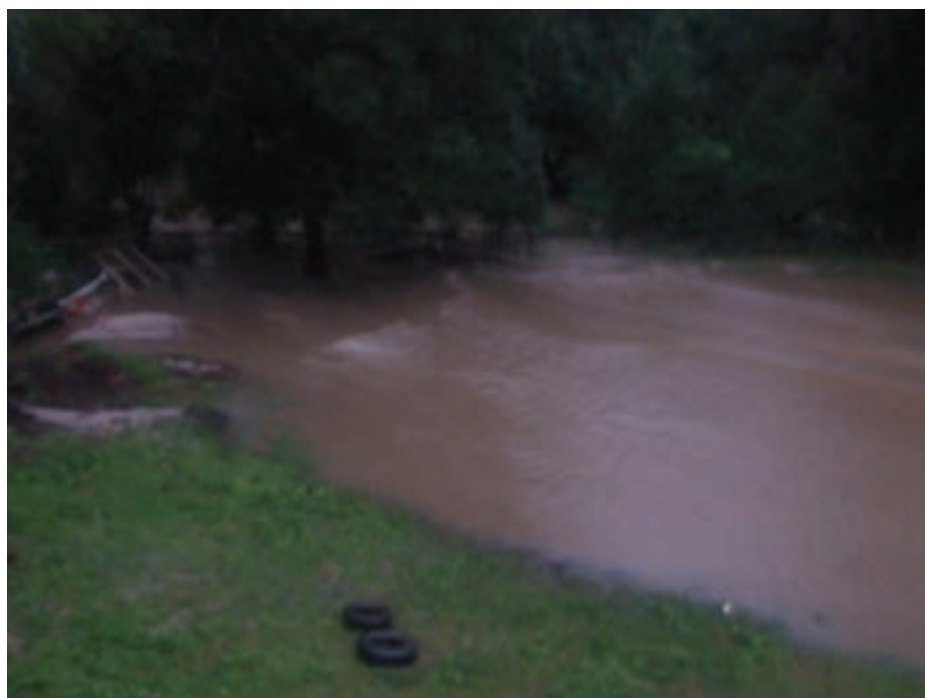
### Photographs Provided by Respondents



**Photograph 1 of 6:** provided by Respondent 204.

**Location:** 16 Hanlan St South, Narara NSW 2250

Photograph showing flooding of the respondents stables



**Photograph 2 of 6:** provided by Respondent 204.

**Location:** 16 Hanlan St South, Narara NSW 2250

Photograph showing the flood breaking its banks at the respondents' property.





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 3 of 6:** provided by Respondent 204.

**Location:** 16 Hanlan St South, Narara NSW 2250

Photograph showing sand deposits from a flood burying a fence on the respondents' property.



**Photograph 4 of 6:** provided by Respondent 204.

**Location:** 16 Hanlan St South, Narara NSW 2250

Photograph showing damage to their chicken coop caused by the flood.



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 5 of 6:** provided by Respondent 204.

**Location:** 16 Hanlan St South, Narara NSW 2250

Photograph showing the extent of flooding on the respondents' property.



**Photograph 6 of 6:** provided by Respondent 204.

**Location:** 16 Hanlan St South, Narara NSW 2250

Photograph showing the extent of flooding on the respondent's property.



## APPENDIX B

### Photographs Provided by Respondents



**Photographs 1 & 2 of 4:** provided by Respondent 244.

**Location:** Narara Valley Drive and Narara Creek, opposite Narara train station, Narara NSW 2250

Photograph showing the extent of flooding on at this location on the 8<sup>th</sup> of June 2007.





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 3 & 4 of 4:** provided by Respondent 244.

**Location:** Narara Valley Drive and Narara Creek, opposite Narara train station, Narara  
Photograph showing the extent of flooding on at this location on the 8<sup>th</sup> of June 2007 (Take note of the water level against the fence).



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 1 of 15:** provided by Respondent 298.

**Location:** 92-96 Reeves St, Narara

Photograph shows flooding on both sides of Reeves St in (approx) 1988



**Photograph 2 of 15:** provided by Respondent 298.

**Location:** Reeves St Causeway, Narara

Photograph shows flooding on both sides of Reeves St in (approx) 1988.





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 3 of 15:** provided by Respondent 298.

**Location:** Reeves St Causeway Narara

Photograph shows flooding on both sides of Reeves St in (approx) 1988.



**Photograph 4 of 15:** provided by Respondent 298.

**Location:** Front of 98-100 Reeves St, Narara

Photograph shows flooding on Reeves St in 2003/4



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 5 of 15:** provided by Respondent 298.

**Location:** Front of 98-100 Reeves St, Narara

Photograph shows flooding on Reeves St in 2003/4



**Photograph 6 of 15:** provided by Respondent 298.

**Location:** Front of 94-100 Reeves St, Narara

Photograph shows flooding of Reeves St in 2003/4.





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 7 of 15:** provided by Respondent 298.

**Location:** Access Bridge, 92-102 Reeves St, Narara

Photograph shows debris from flooding on Reeves St after June 2007 flood.



**Photograph 8 of 15:** provided by Respondent 298.

**Location:** Access Bridge, 92-102 Reeves St, Narara

Photograph shows debris from flooding on Reeves St after June 2007 flood.





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 9 of 15:** provided by Respondent 298.

**Location:** Access Bridge, 92-102 Reeves St, Narara

Photograph shows flooding of Reeves St access Bridge in 2000-2002.



**Photograph 10 of 15:** provided by Respondent 298.

**Location:** Front of, 96, 98 and 100 Reeves St, Narara

Photograph shows flooding of Reeves St on 9/12/2007



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 11 of 15:** provided by Respondent 298.

**Location:** Front of, 96, 98 and 100 Reeves St, Narara

Photograph shows flooding of Reeves St on 9/12/2007



**Photograph 12 of 15:** provided by Respondent 298.

**Location:** 92-96 Reeves St, Narara

Photograph shows flooding of Reeves St in 1988





## APPENDIX B

### Photographs Provided by Respondents



**Photograph 13 of 15:** provided by Respondent 298.

**Location:** Front 94-100 Reeves St, Narara

Photograph shows flooding of Reeves St in 2003/4



**Photograph 14 of 15:** provided by Respondent 298.

**Location:** Front 94-100 Reeves St, Narara

Photograph shows flooding of Reeves St in 2003/4



## APPENDIX B

### Photographs Provided by Respondents



**Photograph 15 of 15:** provided by Respondent 298.

**Location:** Front 100-92 Reeves St, Narara

Photograph shows flooding of Reeves St in 2003/4



# APPENDIX C

## Community Flood Questionnaire Results





ID	Project Name	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025	Q2 2025	Q3 2025	Q4 2025	Q1 2026	Q2 2026	Q3 2026	Q4 2026	Q1 2027	Q2 2027	Q3 2027	Q4 2027	Q1 2028	Q2 2028	Q3 2028	Q4 2028	Q1 2029	Q2 2029	Q3 2029	Q4 2029	Q1 2030	Q2 2030	Q3 2030	Q4 2030	Q1 2031	Q2 2031	Q3 2031	Q4 2031	Q1 2032	Q2 2032	Q3 2032	Q4 2032	Q1 2033	Q2 2033	Q3 2033	Q4 2033	Q1 2034	Q2 2034	Q3 2034	Q4 2034	Q1 2035	Q2 2035	Q3 2035	Q4 2035	Q1 2036	Q2 2036	Q3 2036	Q4 2036	Q1 2037	Q2 2037	Q3 2037	Q4 2037	Q1 2038	Q2 2038	Q3 2038	Q4 2038	Q1 2039	Q2 2039	Q3 2039	Q4 2039	Q1 2040	Q2 2040	Q3 2040	Q4 2040	Q1 2041	Q2 2041	Q3 2041	Q4 2041	Q1 2042	Q2 2042	Q3 2042	Q4 2042	Q1 2043	Q2 2043	Q3 2043	Q4 2043	Q1 2044	Q2 2044	Q3 2044	Q4 2044	Q1 2045	Q2 2045	Q3 2045	Q4 2045	Q1 2046	Q2 2046	Q3 2046	Q4 2046	Q1 2047	Q2 2047	Q3 2047	Q4 2047	Q1 2048	Q2 2048	Q3 2048	Q4 2048	Q1 2049	Q2 2049	Q3 2049	Q4 2049	Q1 2050	Q2 2050	Q3 2050	Q4 2050	Q1 2051	Q2 2051	Q3 2051	Q4 2051	Q1 2052	Q2 2052	Q3 2052	Q4 2052	Q1 2053	Q2 2053	Q3 2053	Q4 2053	Q1 2054	Q2 2054	Q3 2054	Q4 2054	Q1 2055	Q2 2055	Q3 2055	Q4 2055	Q1 2056	Q2 2056	Q3 2056	Q4 2056	Q1 2057	Q2 2057	Q3 2057	Q4 2057	Q1 2058	Q2 2058	Q3 2058	Q4 2058	Q1 2059	Q2 2059	Q3 2059	Q4 2059	Q1 2060	Q2 2060	Q3 2060	Q4 2060	Q1 2061	Q2 2061	Q3 2061	Q4 2061	Q1 2062	Q2 2062	Q3 2062	Q4 2062	Q1 2063	Q2 2063	Q3 2063	Q4 2063	Q1 2064	Q2 2064	Q3 2064	Q4 2064	Q1 2065	Q2 2065	Q3 2065	Q4 2065	Q1 2066	Q2 2066	Q3 2066	Q4 2066	Q1 2067	Q2 2067	Q3 2067	Q4 2067	Q1 2068	Q2 2068	Q3 2068	Q4 2068	Q1 2069	Q2 2069	Q3 2069	Q4 2069	Q1 2070	Q2 2070	Q3 2070	Q4 2070	Q1 2071	Q2 2071	Q3 2071	Q4 2071	Q1 2072	Q2 2072	Q3 2072	Q4 2072	Q1 2073	Q2 2073	Q3 2073	Q4 2073	Q1 2074	Q2 2074	Q3 2074	Q4 2074	Q1 2075	Q2 2075	Q3 2075	Q4 2075	Q1 2076	Q2 2076	Q3 2076	Q4 2076	Q1 2077	Q2 2077	Q3 2077	Q4 2077	Q1 2078	Q2 2078	Q3 2078	Q4 2078	Q1 2079	Q2 2079	Q3 2079	Q4 2079	Q1 2080	Q2 2080	Q3 2080	Q4 2080	Q1 2081	Q2 2081	Q3 2081	Q4 2081	Q1 2082	Q2 2082	Q3 2082	Q4 2082	Q1 2083	Q2 2083	Q3 2083	Q4 2083	Q1 2084	Q2 2084	Q3 2084	Q4 2084	Q1 2085	Q2 2085	Q3 2085	Q4 2085	Q1 2086	Q2 2086	Q3 2086	Q4 2086	Q1 2087	Q2 2087	Q3 2087	Q4 2087	Q1 2088	Q2 2088	Q3 2088	Q4 2088	Q1 2089	Q2 2089	Q3 2089	Q4 2089	Q1 2090	Q2 2090	Q3 2090	Q4 2090	Q1 2091	Q2 2091	Q3 2091	Q4 2091	Q1 2092	Q2 2092	Q3 2092	Q4 2092	Q1 2093	Q2 2093	Q3 2093	Q4 2093	Q1 2094	Q2 2094	Q3 2094	Q4 2094	Q1 2095	Q2 2095	Q3 2095	Q4 2095	Q1 2096	Q2 2096	Q3 2096	Q4 2096	Q1 2097	Q2 2097	Q3 2097	Q4 2097	Q1 2098	Q2 2098	Q3 2098	Q4 2098	Q1 2099	Q2 2099	Q3 2099	Q4 2099	Q1 2100	Q2 2100	Q3 2100	Q4 2100	Q1 2101	Q2 2101	Q3 2101	Q4 2101	Q1 2102	Q2 2102	Q3 2102	Q4 2102	Q1 2103	Q2 2103	Q3 2103	Q4 2103	Q1 2104	Q2 2104	Q3 2104	Q4 2104	Q1 2105	Q2 2105	Q3 2105	Q4 2105	Q1 2106	Q2 2106	Q3 2106	Q4 2106	Q1 2107	Q2 2107	Q3 2107	Q4 2107	Q1 2108	Q2 2108	Q3 2108	Q4 2108	Q1 2109	Q2 2109	Q3 2109	Q4 2109	Q1 2110	Q2 2110	Q3 2110	Q4 2110	Q1 2111	Q2 2111	Q3 2111	Q4 2111	Q1 2112	Q2 2112	Q3 2112	Q4 2112	Q1 2113	Q2 2113	Q3 2113	Q4 2113	Q1 2114	Q2 2114	Q3 2114	Q4 2114	Q1 2115	Q2 2115	Q3 2115	Q4 2115	Q1 2116	Q2 2116	Q3 2116	Q4 2116	Q1 2117	Q2 2117	Q3 2117	Q4 2117	Q1 2118	Q2 2118	Q3 2118	Q4 2118	Q1 2119	Q2 2119	Q3 2119	Q4 2119	Q1 2120	Q2 2120	Q3 2120	Q4 2120	Q1 2121	Q2 2121	Q3 2121	Q4 2121	Q1 2122	Q2 2122	Q3 2122	Q4 2122	Q1 2123	Q2 2123	Q3 2123	Q4 2123	Q1 2124	Q2 2124	Q3 2124	Q4 2124	Q1 2125	Q2 2125	Q3 2125	Q4 2125	Q1 2126	Q2 2126	Q3 2126	Q4 2126	Q1 2127	Q2 2127	Q3 2127	Q4 2127	Q1 2128	Q2 2128	Q3 2128	Q4 2128	Q1 2129	Q2 2129	Q3 2129	Q4 2129	Q1 2130	Q2 2130	Q3 2130	Q4 2130	Q1 2131	Q2 2131	Q3 2131	Q4 2131	Q1 2132	Q2 2132	Q3 2132	Q4 2132	Q1 2133	Q2 2133	Q3 2133	Q4 2133	Q1 2134	Q2 2134	Q3 2134	Q4 2134	Q1 2135	Q2 2135	Q3 2135	Q4 2135	Q1 2136	Q2 2136	Q3 2136	Q4 2136	Q1 2137	Q2 2137	Q3 2137	Q4 2137	Q1 2138	Q2 2138	Q3 2138	Q4 2138	Q1 2139	Q2 2139	Q3 2139	Q4 2139	Q1 2140	Q2 2140	Q3 2140	Q4 2140	Q1 2141	Q2 2141	Q3 2141	Q4 2141	Q1 2142	Q2 2142	Q3 2142	Q4 2142	Q1 2143	Q2 2143	Q3 2143	Q4 2143	Q1 2144	Q2 2144	Q3 2144	Q4 2144	Q1 2145	Q2 2145	Q3 2145	Q4 2145	Q1 2146	Q2 2146	Q3 2146	Q4 2146	Q1 2147	Q2 2147	Q3 2147	Q4 2147	Q1 2148	Q2 2148	Q3 2148	Q4 2148	Q1 2149	Q2 2149	Q3 2149	Q4 2149	Q1 2150	Q2 2150	Q3 2150	Q4 2150	Q1 2151	Q2 2151	Q3 2151	Q4 2151	Q1 2152	Q2 2152	Q3 2152	Q4 2152	Q1 2153	Q2 2153	Q3 2153	Q4 2153	Q1 2154	Q2 2154	Q3 2154	Q4 2154	Q1 2155	Q2 2155	Q3 2155	Q4 2155	Q1 2156	Q2 2156	Q3 2156	Q4 2156	Q1 2157	Q2 2157	Q3 2157	Q4 2157	Q1 2158	Q2 2158	Q3 2158	Q4 2158	Q1 2159	Q2 2159	Q3 2159	Q4 2159	Q1 2160	Q2 2160	Q3 2160	Q4 2160	Q1 2161	Q2 2161	Q3 2161	Q4 2161	Q1 2162	Q2 2162	Q3 2162	Q4 2162	Q1 2163	Q2 2163	Q3 2163	Q4 2163	Q1 2164	Q2 2164	Q3 2164	Q4 2164	Q1 2165	Q2 2165	Q3 2165	Q4 2165	Q1 2166	Q2 2166	Q3 2166	Q4 2166	Q1 2167	Q2 2167	Q3 2167	Q4 2167	Q1 2168	Q2 2168	Q3 2168	Q4 2168	Q1 2169	Q2 2169	Q3 2169	Q4 2169	Q1 2170	Q2 2170	Q3 2170	Q4 2170	Q1 2171	Q2 2171	Q3 2171	Q4 2171	Q1 2172	Q2 2172	Q3 2172	Q4 2172	Q1 2173	Q2 2173	Q3 2173	Q4 2173	Q1 2174	Q2 2174	Q3 2174	Q4 2174	Q1 2175	Q2 2175	Q3 2175	Q4 2175	Q1 2176	Q2 2176	Q3 2176	Q4 2176	Q1 2177	Q2 2177	Q3 2177	Q4 2177	Q1 2178	Q2 2178	Q3 2178	Q4 2178	Q1 2179	Q2 2179	Q3 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2210	Q1 2211	Q2 2211	Q3 2211	Q4 2211	Q1 2212	Q2 2212	Q3 2212	Q4 2212	Q1 2213	Q2 2213	Q3 2213	Q4 2213	Q1 2214	Q2 2214	Q3 2214	Q4 2214	Q1 2215	Q2 2215	Q3 2215	Q4 2215	Q1 2216	Q2 2216	Q3 2216	Q4 2216	Q1 2217	Q2 2217	Q3 2217	Q4 2217	Q1 2218	Q2 2218	Q3 2218	Q4 2218	Q1 2219	Q2 2219	Q3 2219	Q4 2219	Q1 2220	Q2 2220	Q3 2220	Q4 2220	Q1 2221	Q2 2221	Q3 2221	Q4 2221	Q1 2222	Q2 2222	Q3 2222	Q4 2222	Q1 2223	Q2 2223	Q3 2223	Q4 2223	Q1 2224	Q2 2224	Q3 2224	Q4 2224	Q1 2225	Q2 2225	Q3 2225	Q4 2225	Q1 2226	Q2 2226	Q3 2226	Q4 2226	Q1 2227	Q2 2227	Q3 2227	Q4 2227	Q1 2228	Q2 2228	Q3 2228	Q4 2228	Q1 2229	Q2 2229	Q3 2229	Q4 2229	Q1 2230	Q2 2230	Q3 2230	Q4 2230	Q1 2231	Q2 2231	Q3 2231	Q4 2231	Q1 2232	Q2 2232	Q3 2232	Q4 2232	Q1 2233	Q2 2233	Q3 2233	Q4 2233	Q1 2234	Q2 2234	Q3 2234	Q4 2234	Q1 2235	Q2 2235	Q3 2235	Q4 2235	Q1 2236	Q2 2236	Q3 2236	Q4 2236	Q1 2237	Q2 2237	Q3 2237	Q4 2237	Q1 2238	Q2 2238	Q3 2238	Q4 2238	Q1 2239	Q2 2239	Q3 2239	Q4 2239	Q1 2240	Q2 2240	Q3 2240	Q4 2240	Q1 2241	Q2 2241	Q3 2241	Q4 2241	Q1 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2273	Q3 2273	Q4 2273	Q1 2274	Q2 2274	Q3 2274	Q4 2274	Q1 2275	Q2 2275	Q3 2275	Q4 2275	Q1 2276	Q2 2276	Q3 2276	Q4 2276	Q1 2277	Q2 2277	Q3 2277	Q4 2277	Q1 2278	Q2 2278	Q3 2278	Q4 2278	Q1 2279	Q2 2279	Q3 2279	Q4 2279	Q1 2280	Q2 2280	Q3 2280	Q4 2280	Q1 2281	Q2 2281	Q3 228
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ID	Project Name	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025	Q2 2025	Q3 2025	Q4 2025	Q1 2026	Q2 2026	Q3 2026	Q4 2026	Q1 2027	Q2 2027	Q3 2027	Q4 2027	Q1 2028	Q2 2028	Q3 2028	Q4 2028	Q1 2029	Q2 2029	Q3 2029	Q4 2029	Q1 2030	Q2 2030	Q3 2030	Q4 2030	Q1 2031	Q2 2031	Q3 2031	Q4 2031	Q1 2032	Q2 2032	Q3 2032	Q4 2032	Q1 2033	Q2 2033	Q3 2033	Q4 2033	Q1 2034	Q2 2034	Q3 2034	Q4 2034	Q1 2035	Q2 2035	Q3 2035	Q4 2035	Q1 2036	Q2 2036	Q3 2036	Q4 2036	Q1 2037	Q2 2037	Q3 2037	Q4 2037	Q1 2038	Q2 2038	Q3 2038	Q4 2038	Q1 2039	Q2 2039	Q3 2039	Q4 2039	Q1 2040	Q2 2040	Q3 2040	Q4 2040	Q1 2041	Q2 2041	Q3 2041	Q4 2041	Q1 2042	Q2 2042	Q3 2042	Q4 2042	Q1 2043	Q2 2043	Q3 2043	Q4 2043	Q1 2044	Q2 2044	Q3 2044	Q4 2044	Q1 2045	Q2 2045	Q3 2045	Q4 2045	Q1 2046	Q2 2046	Q3 2046	Q4 2046	Q1 2047	Q2 2047	Q3 2047	Q4 2047	Q1 2048	Q2 2048	Q3 2048	Q4 2048	Q1 2049	Q2 2049	Q3 2049	Q4 2049	Q1 2050	Q2 2050	Q3 2050	Q4 2050	Q1 2051	Q2 2051	Q3 2051	Q4 2051	Q1 2052	Q2 2052	Q3 2052	Q4 2052	Q1 2053	Q2 2053	Q3 2053	Q4 2053	Q1 2054	Q2 2054	Q3 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ID	Project Name	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025	Q2 2025	Q3 2025	Q4 2025	Q1 2026	Q2 2026	Q3 2026	Q4 2026	Q1 2027	Q2 2027	Q3 2027	Q4 2027	Q1 2028	Q2 2028	Q3 2028	Q4 2028	Q1 2029	Q2 2029	Q3 2029	Q4 2029	Q1 2030	Q2 2030	Q3 2030	Q4 2030	Q1 2031	Q2 2031	Q3 2031	Q4 2031	Q1 2032	Q2 2032	Q3 2032	Q4 2032	Q1 2033	Q2 2033	Q3 2033	Q4 2033	Q1 2034	Q2 2034	Q3 2034	Q4 2034	Q1 2035	Q2 2035	Q3 2035	Q4 2035	Q1 2036	Q2 2036	Q3 2036	Q4 2036	Q1 2037	Q2 2037	Q3 2037	Q4 2037	Q1 2038	Q2 2038	Q3 2038	Q4 2038	Q1 2039	Q2 2039	Q3 2039	Q4 2039	Q1 2040	Q2 2040	Q3 2040	Q4 2040	Q1 2041	Q2 2041	Q3 2041	Q4 2041	Q1 2042	Q2 2042	Q3 2042	Q4 2042	Q1 2043	Q2 2043	Q3 2043	Q4 2043	Q1 2044	Q2 2044	Q3 2044	Q4 2044	Q1 2045	Q2 2045	Q3 2045	Q4 2045	Q1 2046	Q2 2046	Q3 2046	Q4 2046	Q1 2047	Q2 2047	Q3 2047	Q4 2047	Q1 2048	Q2 2048	Q3 2048	Q4 2048	Q1 2049	Q2 2049	Q3 2049	Q4 2049	Q1 2050	Q2 2050	Q3 2050	Q4 2050	Q1 2051	Q2 2051	Q3 2051	Q4 2051	Q1 2052	Q2 2052	Q3 2052	Q4 2052	Q1 2053	Q2 2053	Q3 2053	Q4 2053	Q1 2054	Q2 2054	Q3 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2242	Q2 2242	Q3 2242	Q4 2242	Q1 2243	Q2 2243	Q3 2243	Q4 2243	Q1 2244	Q2 2244	Q3 2244	Q4 2244	Q1 2245	Q2 2245	Q3 2245	Q4 2245	Q1 2246	Q2 2246	Q3 2246	Q4 2246	Q1 2247	Q2 2247	Q3 2247	Q4 2247	Q1 2248	Q2 2248	Q3 2248	Q4 2248	Q1 2249	Q2 2249	Q3 2249	Q4 2249	Q1 2250	Q2 2250	Q3 2250	Q4 2250	Q1 2251	Q2 2251	Q3 2251	Q4 2251	Q1 2252	Q2 2252	Q3 2252	Q4 2252	Q1 2253	Q2 2253	Q3 2253	Q4 2253	Q1 2254	Q2 2254	Q3 2254	Q4 2254	Q1 2255	Q2 2255	Q3 2255	Q4 2255	Q1 2256	Q2 2256	Q3 2256	Q4 2256	Q1 2257	Q2 2257	Q3 2257	Q4 2257	Q1 2258	Q2 2258	Q3 2258	Q4 2258	Q1 2259	Q2 2259	Q3 2259	Q4 2259	Q1 2260	Q2 2260	Q3 2260	Q4 2260	Q1 2261	Q2 2261	Q3 2261	Q4 2261	Q1 2262	Q2 2262	Q3 2262	Q4 2262	Q1 2263	Q2 2263	Q3 2263	Q4 2263	Q1 2264	Q2 2264	Q3 2264	Q4 2264	Q1 2265	Q2 2265	Q3 2265	Q4 2265	Q1 2266	Q2 2266	Q3 2266	Q4 2266	Q1 2267	Q2 2267	Q3 2267	Q4 2267	Q1 2268	Q2 2268	Q3 2268	Q4 2268	Q1 2269	Q2 2269	Q3 2269	Q4 2269	Q1 2270	Q2 2270	Q3 2270	Q4 2270	Q1 2271	Q2 2271	Q3 2271	Q4 2271	Q1 2272	Q2 2272	Q3 2272	Q4 2272	Q1 2273	Q2 2273	Q3 2273	Q4 2273	Q1 2274	Q2 2274	Q3 2274	Q4 2274	Q1 2275	Q2 2275	Q3 2275	Q4 2275	Q1 2276	Q2 2276	Q3 2276	Q4 2276	Q1 2277	Q2 2277	Q3 2277	Q4 2277	Q1 2278	Q2 2278	Q3 2278	Q4 2278	Q1 2279	Q2 2279	Q3 2279	Q4 2279	Q1 2280	Q2 2280	Q3 2280	Q4 2280	Q1 2281	Q2 2281	Q3 228
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[illegible]

Only Associates Pay. Last



**Water and Crook Catchment - Community Flood Quanta model to Report on**

Dunlop Associates Pty. Ltd.

[illegible]





# APPENDIX D

## Calibration Table





## RESULTS OF COMMUNITY FLOOD SURVEY

Table 1: Calibration Dates of Flooding

Dates of Flooding	ID	Address	Details of Event
1963-1965 - afternoon			The largest one I can remember was when Whitton Street {90b} (now Henry Parry Dr.) was cutt off by floodwaters which came up to our back door in Laycock St in 1964
1973 3 days			1973, stranded for 3 days with new born baby supplies boated up to me. At the time Carrington st was a 1 way unformed, unsealed single lane. Water did not cover my property to the extent that it does now. Since Council did extensive 'flood mitigation' work mid "80;s' problem increased.
Late 70's - High tide			Covered 3/4 of my backyard for 10' wide
Late 1970's			
Feb 1977 (Coincided with King Tide and heavy rain)			Street behind us (Koninderie Pde {144b}) next to creek was knee deep in water which flowed through houses and back yards through to our backyard.
1979-1980			
1980 floods regularly			Since Council did extensive 'flood mitigation' work mid "80;s' problem increased.
Approx 1980 Midday			Property backs onto creek in Brady's Gully and twice in the first few years. We were here, we had the creek rise to approx 1/3 of the back yard.
1980's - Midday			Heavy rainfall blocked creek at back and it was high tide
Approx 1981 Midday			Property backs onto creek in Brady's Gully and twice in the first few years. We were here, we had the creek rise to approx 1/3 of the back yard.
1983			
1984 AM			Water came into backyard
Nov 1985 Night			Flooding occurred approx 1.30 to 2.30 during the night
1986			
June 1986			The water level broke the Narara Creek embankment and flooded the family property and business
Late 1980's			Wyoming creek rose after a week or so of heavy rain. The waters flooded our backyard smashing through 2 fibro walls in our garage, buckling the garage roller door
1986/1988			The flooding was caused by poor Council drainage off Manns Road and poor stormwater control from adjacent property(s) to the South
April 1988?			The water level broke the Narara Creek embankment and flooded the family



## RESULTS OF COMMUNITY FLOOD SURVEY

Dates of Flooding	ID	Address	Details of Event
June 1988			property and business
November 1988			
1989			1989 not much drainage
Feb 1989 - midday			Development of land behind our house - altered the natural water course - very heavy storm caused water to enter our property dumping water, silt - not necessarily because of the creek
1989 Early 1990's and minor floods in subsequent years (Three one Hundred Year floods in 4 years)			Lot 22 Manns Road completely under water. Water up to two metres high in the one hundred year flood
17-April-1990 daylight			Carrington St was really flooded, about a metre deep at times and on my property the little creek flowed extensively, as did a 'drain" made by me on the other side of a low lying area, well hack from my very dry house.
10-December-1990 daylight			
Approx Feb 1990 - Night			Severe rainstorm and flooding of creek/major drain
8/2/1990 overnight, 15/2/1990 afternoon			Council cut grass in reserve in the rain which washed cutting into drains blocking them. Creek overflowed with stormwater and flooded my property and home. Fences were also demolished by the weight of the water.
April 1990 - Daytime; April 17 1990 - Late afternoon			
Early 1990's - early a.m			Wyoming creek rose after a week or so of heavy rain. The waters flooded our backyard smashing through 2 fibro walls in our garage, buckling the garage roller door
Approx 1990			
1991 Early AM (High Tide)			Came over front verandah - 900cm above ground happened at high tide - pressure cracked fibro fence and pushed wooden gates that normally opened in, outwards.
1991			
1991 Feb - Daylight			



## RESULTS OF COMMUNITY FLOOD SURVEY

Dates of Flooding	ID	Address	Details of Event
Feb 1991 Night, 2 or 3 times during the eighties			1991 level went above the councils 1 in 100 year flood marker
19/10/1991			
1992			1989 not much drainage
1992			
1992 all day			
About 1992 Saturday morning			Closed Carrington St for 2 days. 1m of water over the lower part of Carrington Street {256a}, car washed away
1992 - ingress into home			A large part of Gosford was flooded Wingello Creek flooded and water came in the back corner of our backyard. It didn't cause us any problems
1992 - Morning			Yes by retained photos
Approx Feb 1992 - Night			Fast flowing water
Feb 1992 at 2am			Severe rainstorm and flooding of creek/major drain
			The water level broke the Narara Creek embankment and flooded the family property and business
Feb 1992 - Night			
Feb 1992 (Coincided with King Tide and heavy rain)			Flooding occurred approx 1.30 to 2.30 during the night
Feb 1992 Early AM (High Tide)			Street behind us (Koninderie Pde) next to creek was knee deep in water which flowed through houses and back yards through to our backyard.
1993			Came over front verandah - 900cm above ground happened at high tide - pressure cracked fibro fence and pushed wooden gates that normally opened in, outwards.
1994 - Morning			
1996			Fast flowing water
1996 March - Daylight			
1998(?)			
1998			Closed Carrington St for 2 days. 1m of water over the lower part of Carrington Street {256a}, car washed away
1999 after heavy rain depending on tide			
(I think) Feb 2001 3-5am			Yes as it came up too close to our factory roller shutter door
2002			Closed Carrington St for 2 days. 1m of water over the lower part of Carrington Street. car washed away



## RESULTS OF COMMUNITY FLOOD SURVEY

Dates of Flooding	ID	Address	Details of Event
2002 - 6am to 8am			Submerged and damaged driveway bridge. Prevented access to the property due to depth of flowing water over the bridge
2002 (march) 7am			
Easter Thursday 2002? Morning			Long weekend when 1.2 metres deep in paddock many tonnes of sand deposited.
2003 - Night			Heaps of river sand, trees, in garage, steps etc.
April/May 2003 Afternoon			A 3 feet wall of water went across the lowest part of the backyard - on top of stormwater drain. It managed to partially escape down cement access drain at the right hand corner of my property - but flattened everything in its path.
25 May 2003 Afternoon			Council cut grass in reserve in the rain which washed cutting into drains blocking them. Creek overflowed with stormwater and flooded my property and home. Fences were also demolished by the weight of the water.
2004			
May 2004(?) - 7am to 9am, by far the worst			Rain fell from about 7am to 7.45 or 8am (ABC broadcast that we'd had 113mm) and the water level arose fast enough to trap horses on the land opposite {89b}. Road really covered {89c}.
2005 - Night			Heaps of river sand, trees, in garage, steps etc.
June 2005 due to heavy rain			Have photos of mulching into creek but can't find at moment
2006?			1989 not much drainage
11 May 2006 - Night			Heaps of river sand, trees, in garage, steps etc.
2006 (june) 3pm			2006 storms, flooded back of property (borders the creek) plus flooding from the road down the sides of the house and into the pool.
June 2006 - Fri afternoon Sunday			
June 2006 storms			
2007?			Did not affect the dwelling, just the backyard and shed.
2007 all day and night			
2007 1 day			1989 not much drainage
2007			
Anzac Day 2007 (All Day)			Have photos of mulching into creek but can't find at moment Whole backyard under water about 1/2 metre deep.
June Queens Bday Weekend 2007			Moved in on Queens bday weekend. Road flooded at Hanlan St and bottom of property flooded. Any heavy rain - property floods although is a flood plain!





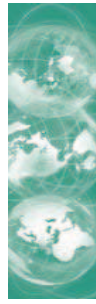
## RESULTS OF COMMUNITY FLOOD SURVEY

Dates of Flooding	ID	Address	Details of Event
Long Weekend, June 07 - 3.30pm, Other times in heavy rain			Very heavy rain
June 2007 - 3 days			Entire property was surrounded by floodwater for 3 days
June 2007 - 3 Days, Various since - at least 6 times, 24hrs			June 07 storms - Reeves Street. We were cut off for over 2 days
June 2007			We have lived at 12 Willari Avenue, Narara for three years in a house standing on a concrete slab. The block of land is flat and there are no stairs at the main entrance to the house. Normally our garden and yard drain satisfactorily during and after heavy rain. However, in June 2007 there was stormy weather with heavy rain for days and the rear of our block became waterlogged, with puddles in the vegetable patch near the rear fence. This cleared as soon as fine weather arrived - probably helped by the vacant reserve beyond the back fence. No rain or flood water entered our house; therefore we have not been affected by flooding since living here
June 2007 PM			Occurred during June long weekend, property adjacent to Gavenlock oval
June 2007 - approx 11pm			Flood peaked on high tide approx 300mm through the ground floor
June 2007 - Morning			Fast flowing water
June 2007			
Sat June 9th 2007 - 4am			Approx half the racetrack was flooded after we received 388mm of rain in the 24hr period
June 2007 Highest tide approx 0400-0500 hrs			Cyclonic weather for a weekend. Narara Creek came up to the large tree in backyard
June long weekend 2007?			The water level rose to the floor level of our chicken coup. Maybe 1m depth
June Long Weekend 2007 4.30am			
June Long weekend approx. 4 other times			Our street was in accessible, as was railway crescent
June Long Weekend 2007, All Day			June long weekend 2007 didn't actually flood our property but flooded the access to it. i.e. Carrington St near the school and at the private end of Carrington st. Our garage always floods due to the run off from the lie of the land.
June long weekend 2007			June public holiday weekend 2007 water rose rapidly up to 1-100 year flood line (?).



## RESULTS OF COMMUNITY FLOOD SURVEY

Dates of Flooding	ID	Address	Details of Event
(Daytime), Numerous floodings since residence (30+)			1st time water flowed rapidly at paddock gate.
June 2007 long weekend (largest flood)			The bottom half of our backyard was under water, for 2 days. Moderate erosion for the over flow drain from the dam next door. Side fence was damaged from dam over flow. Gumtree next door fell over and thru our garden shed due to the softened ground.
June longweekend 10/06/2007 Large downpours regularly			10/07/2007 The water came over the road at North Crescent {174b} and Linden Street {174c} that it ran down our driveway flooding the garage down the side of the house and guttering. Deaths at Somersby of a family.
Multiple Occasion, Largest June 2007			
June 2007 (long weekend) the worst and Numerous times/cant remember the dates			
June Long weekend 07 - 5.30pm			Heaps of river sand, trees, in garage, steps etc.
June/July 2007 (Overnight and Early Morning), There have been other occasions due to heavy rain and tides - usually overnight and early morning.			Street behind us (Koninderie Pde) next to creek was knee deep in water which flowed through houses and back yards through to our backyard.
Queens Birthday 2007 (All weekend), Anzac Day 2007 (All Day)			Whole backyard under water about 1/2 metre deep.
June Long weekend 2007 afternoon			Long weekend June 2007
June floods 07?			Large enough to move a 20ft container
June long weekend (Saturday) 2007 4am			Flood water from creek across the street came into front yard and up to base of house slab. Water was 600mm deep at front gate.
June 2007			



## RESULTS OF COMMUNITY FLOOD SURVEY

Dates of Flooding	ID	Address	Details of Event
June 2007 Tidal			Day that Narara had highest rainfall for state was the highest that flood waters had in our yard. Over the years have had creek raise up but that was the highest we have ever seen
9-6-2007 5:00am			9-6-2007 June long weekend, our house was flooded by 30cm of water from the creek that runs parallel to Koninderie Pde, Narara and flows into Narara Creek. It flooded our house, backyard, front yard and garage.
June Long weekend 2007 (started Friday evening and had subsided noticeably by Sunday Afternoon).			Brady's Gully rose and broke over the bank, spreading about 1m into the reserve area directly beside our backyard.
June 2007 (can be anytime, might be day, morning), while we have been here, we can't remember the dates or even some of the years that we have had bad floods, it's always been flooding in 2 hours if we had 60ml of rain after freeway was build			2007 last worst flood that we had, water level was higher than ever before you could not see the fence posts. Water was that high we lost the fence plants and water damaged the stone wall that my husband build up to support the creek bank. We had big clean up after. There was huge logs, tree stumps and debris. Also there was lots of sand dunes. We did get all that from upper part of the creek. We called the council to come and have a look.
June 2007 (long weekend)			Water was about knee height in our back yard. Took a few days to subside completely
June 07 (2pm)			June 2007 couldn't get home due to flooding
June 2007 Worst - 9/6/2007, 10/06/2007 and 16/06/007 - Numerous ties in 3 years and peaked 3-4pm			Friday 9/6/07 - 1.5m deep across back yard (backs on to Narara Creek) All road into Fountains Road blocked by water.
8th June 2007 at 2pm and 9th June 2007 at 3am			The long weekend of 2007 due to excessive rain flooding occurred several times across our front yard and over our access bridge.
June Long Weekend 2007 (Friday afternoon & Saturday Afternoon), unsure of dates but we have had the creek break			Long weekend when 1.2 metres deep in paddock many tonnes of sand deposited.



## RESULTS OF COMMUNITY FLOOD SURVEY

Dates of Flooding	ID	Address	Details of Event
its banks I think twice since the long weekend.			
8 June 2007 2pm, 9 June 2007 3am			June 07 first time our access bridge had gone under water (photo) bridge to 1.100 Council specifications.
July 2007			
30 November 2007 afternoon			
November 20th 2007 at 3am			
9th December 2007 at 1.00pm			
9 December 2007 afternoon			
2008			
2008			Submerged and damaged driveway bridge. Prevented access to the property due to depth of flowing water over the bridge
			Closed Carrington St for 2 days. 1m of water over the lower part of Carrington Street, car washed away
			Flooding occurred approx 1.30 to 2.30 during the night
Feb 2008 - Night			Back patio area flooded during rain. Drains were backed up I think
9 Feb 2008 13:10pm			The largest flood was during the storms in about Mar/Apr 2008. The water level in the creek at the bottom of my yard rose approx 2m.
March 2008			
June Long weekend 2008 - 11.00am			
June 2008 (can be anytime, might be day, morning)			
June 2008 - 2 days straight			During the 'heavy' rain of June 2008. Bottom of property - where creek runs - flowed onto plains - broke creek walls, lost trees, soils etc
June 2008			June 2008 following several days of extensive rain, major pooling of water (approximately the amount in an average swimming) accumulated on our property as well as two of the neighbouring properties {uncertain which two properties}.
2009 high tide			
16 February 2009 Minor			



## RESULTS OF COMMUNITY FLOOD SURVEY

Dates of Flooding	ID	Address	Details of Event
flooding Reeves Street Causeway			
2009 (march) 9am			
Easter 2009, on high tide			Floor level of house approx 2m's
9 June 2009 - all weekend			
June 2009 (can be anytime, might be day, morning)			Have photos of backyard
June 2009 - Night			
July 2009 - 9.00am			Flooding occurred approx 1.30 to 2.30 during the night
July 2009 PM			Lower yard area only





# APPENDIX E

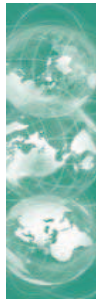
## Reported Damages Table



## RESULTS OF COMMUNITY FLOOD SURVEY

Table 2: Reported Damages

ID	Address	Damages	Estimated Cost
		Soil Erosion	\$500-\$1000
		Mud, external doors, Paint work	\$10,000
		Garden Plants and quite large shrubs were washed out, Gosford council acted quickly and remedied the sewerage line to take overflow water.	\$15,000 in todays costs
		General clean up - mud, rocks etc.	
		Shed undermined	approx \$1000
		Garage/Property (SOLD)	
		Lifted bitumen at car park. Burst council stormwater pipe. {address uncertain}	
		Fences, soil erosion along creek bed	\$500
		Bridge (driveway) was submerged and could not be used for vehicle traffic due to the damage	\$7,000
		Pool popped from ground, fences left and right, usually clean up expenses inside house and exterior	\$10,000
		Frozen food in freezer in garage (no power for 4 days) , items on floor of garage	\$550
		Electronic controls in machine got wet and burned out when restarted	\$5,000
		Garage - Constant stream, Building (Below floor level) - Pooling	None
		Garage, lawn mowers, freezers, fridges	\$20,000
		All - Front yard, Backyard, Garage, Building (above floor level), Building (below floor level)	
		Two holes in walls of garage, buckled garage roller door	\$600 approx.
		Earth washed away due to easement being filled in by construction across the creek	
		Outside dunny floated away	
		Pool area - clean pool out of dirt and sand	\$800
		Contents of home including complete new kitchen, carpets to all rooms	



## RESULTS OF COMMUNITY FLOOD SURVEY

ID	Address	Damages	Estimated Cost
		Carpet, cabinet, fence	\$Several Thousands
		Fence piers under house, gates, car	\$Several Thousands
		Car	\$10,000
		Boundary fence destroyed	\$2,000
		Entire backyard fence destroyed (old)	\$2000 put new powder coated
		Bridges over creek Lawn/Plants	
		100 meters of rural fencing destroyed. Rubbish/Trees deposited on block	
		Previously damage was to clothesline, fence and BBQ setting	\$2,000
		Fences	Minimal
		Building floor coverings furniture - vehicles - plant and equipment nursery items	\$400,000
		Fences, Plants	
		Lost Bird Cages and Shed. Lost 1/3 Backyard	
		Only backyard	
		Garden bridge and arbour	\$3,000
		Garage is not usable	\$5,000
		Erosion and loss of plants and deadbury trapped	Unable to put a price as it was a lot of top soil erosion
		Stormwater flooding up to the base of window frame	Nil
		Washing away of fill from rear filled area causing slab cracking and subsidence	\$10,000
		Fences pushed over, Trees and shrubs destroyed	\$3,000
		Fence, Equipment in shed, livestock	\$1,000
		Gardens destroyed, container damaged	Cost of retrieving container out of creek \$1000
		Pool & garden. However due to flooding a tree fell on the house	Pool & surrounds = \$2,000, House \$120,000



## RESULTS OF COMMUNITY FLOOD SURVEY

ID	Address	Damages	Estimated Cost
		Side fences and retaining wall, carpets	\$10,000
		4WD written off - rescuing a vehicle that washed over creek edge outside 77 Carrington	\$87,000
		Fence, White goods, furniture, personal effects	\$15,000
		Vacant land eroded - needs to be re-claimed	
		Back fence disappeared	
		Garage floor - no cost involved, just a clean up	no cost
		Just debris on fencing	
		Water went through garage damaging fridge motor. Also shoes washed away from backyard.	\$1,000 cost of fridge
		Damage to Flora	
		Creek bank seriously eroded - changing course	
		Just plants & Lawn	Not much
		House, Carpets, all laminate flooring, fence and furniture	\$14,269
		Fences	\$200
		We minimise property damage by moving equipment to higher ground. Cost to us is time lost to business due to floods.	
		Tree fell over broke two other trees and damaged clothesline.	\$100.00 + Trees
		No damage to buildings, mud had to be shovelled out of carport and garage	No cost, cleaned up by ourselves
		Carpets, electrical equipment, tools, furniture, mower, snipper, fences and gates	\$15,000
		Replaced fencing on three occasions	
		Garden Shed, Garden Fence	Garden Shed: \$5,000 and Garden Fence: \$2,000
		Lost Fences	
		2007 NRMA would not pay damage to house cracked walls + supporter under house	



## RESULTS OF COMMUNITY FLOOD SURVEY

ID	Address	Damages	Estimated Cost
		Damaged fence, lost plants	\$2,000
		Carpet, Furniture	\$700 - \$800 estimate





# APPENDIX F

## Survey Responses

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4			JOB NO.	
			GOLDER ASSOCIATES PTY LTD	
			26 NOV 2009	
			SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ROADWAY OVER NARARA CREEK  
AT NARARA RLY. STATION BEFORE  
COUNCIL FIXED CREEK

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

no

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

✓  
entered  
26/11/2009

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4			GOLDER ASSOCIATES PTY LTD
			26 NOV 2009
			SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

✓  
entered  
26/11/09





Would you be able to provide some details of the largest flood:

Flood incidences in the Nacara Catchment occurred during the simultaneous down-pour of a rain-storm and high-water spring tide in Brisbane water. The railway bridge spanning Brisbane Water & Fagan's Bay cannot cope with such discharge

Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

If 'OTHER', please specify: .....

Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) .....

Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....

DAMAGE \$.....

Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☒

COMMERCIAL ☒

OTHER ☒

PARKS ☒

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1992 or 93 end of	Mid-night.
2	beginning of the year.	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: *Pls see Q3.*

.....

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.....

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

If you can resolve the floodwater discharge at the railway bridge between Beerberran Water & Fagan's Bay, the following problems will probably be resolved (1) Reduce incidences of flood ~~that~~ that occurred in the traditional flood prone areas. (2) Retain a large body of freshwater for use. (3) Reduce the potential acid-sulphate soil condition along the Nairana Catchment.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information? **No.**

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

Please refer to Q 11 Q16

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Removing the cause or causes of the floods should be the priority. The above are only "band-aid" solutions that will

Thank you for providing the above information.

Keep haunting future generations.

The solution to the flood problem is in "Ecologically Sustainable Development" which is beyond the scope of ~~some~~ "Conventional Wisdom".

"

TO PREVENT A FLOOD WATER SHOULD BE FORBIDDEN TO MOVE."

✓  
autend  
26/1/09



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		JOB NO.
		GOLDER ASSOCIATES PTY LTD
		26 NOV 2009
		SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 471 Carrington St  
(Directly opposite our property)  
Horse paddocks flood.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Almost every time of big rainfall would estimate at least once a year.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: ① Flooding of the roadway especially at the culvert bridge west of Pandaka Road - this is an occurrence a couple of times a year.  
② Hanlon St South bridge near Fountains Road replaced in recent times can still flood in exceptional storms.  
③ Have seen Carrington St flooded from the culvert bridge near my property to Manns Road - coupled with Hanlon St Bridge we can be cut off until water subsides - last occurrence June 2007.  
④ Overland flow can occur on our property approx. 60m from Carrington St where the flow from our own driveway bridge can back up from where it discharges into Natarua Valley High School. Can rise to around 20-30cm - this water is run off from properties higher up & westerly. The home/back yard and higher section of front yard are unaffected.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Flooding of Carrington St especially at the culvert bridge between our home & Pandala Road as well as the Pandala Road & Oval is exacerbated by flows coming from Reeves Street via the property opposite us at 471 Carrington. The street drainage is inadequate to cope with the massive flows during severe rain. A build up especially occurs at the Pandala Road stormwater pipes which are quite small and prone to blocking with debris. High tide in Narara Creek could also slow the runoff and cause some backing up - but generally the drop from Carrington St to the Narara Creek is quite some distance - I think a lot of local flooding - see (A) below

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐ (Radio if you are listening)
4. Gosford Council ☐
5. Other (please specify) ☐

No warnings - but warnings not generally necessary as residents are aware of the district. Narara Valley High does receive warnings in order to evacuate the school if necessary. 2007 probably the last time.

**Q13.** Do you think your property is liable to flooding from the nearby creek? Last time.

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☒
- Floodway construction ☒
- House Raising ☐
- Development Controls ☒

Other (please specify) Improve passage way for drainage from Reeves St to Carrington creek & improve Carrington St drainage.

(A) is due to poor or blocked open street drainage as well as the Pandala Road pipes at Carrington - The flow through the property opposite at 471 is a massive amount of water from Reeves Street with basically nowhere to go when it comes through their property and out into the Carrington St culvert bridge. I have seen water rise to completely block my neighbours opposite in their driveway within about 30 minutes after a deluge.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

*(subject to future being a realistic assessment over a realistic time period)*

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

✓ entered  
26/11/09



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

7  
TIME

4		
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I UNDERSTAND FROM NEIGHBOURS THAT PART  
 OF MY PROPERTY DO FLOOD A COUPLE  
 OF TIMES PER YEAR

JOB NO.  
 GOLDBER ASSOCIATES PTY LTD  
 26 NOV 2009  
 SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ *PER ADVICE* BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ *of* OTHER ☐  
*NEIGHBOUR*

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☐  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: ..... *NONE IN THE 6 MONTHS* .....

*THAT I HAVE LIVED IN THE AREA*

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

I THINK THE FLOODING ON  
MY PROPERTY WILL BE FROM  
2 PUMPS ON IT, NOT FROM  
THE NARARA CREEK

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



✓ entered  
28/11/09

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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4		

JOB NO.

GOLDER ASSOCIATES PTY LTD

26 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... In front of Navara Valley Nursery /  
near the creek (Manns Rd) .....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	July 07	Can't remember
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

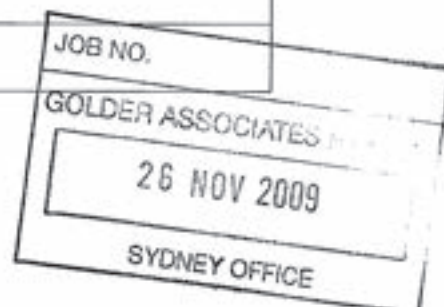
✓  
Entered  
26/11/09

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4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	<u>5-6 cm</u>	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	<u>5-6 cm</u>	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED Soil Erosion  
(such as building, fence, garage etc.) .....

DAMAGE \$500-\$1000

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 54 Pierce St Lisarow

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding? No

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

I have a video of heavy rain washing away a large trench through the yard. (after shaping land with bobcat)  
Not sure of dates.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Initial flooding to the block were due to a fence being installed at rear (top) of property & clearing of land to build school. This work created more run-off & then directed  $\approx 100\text{m}$  of surface water to my block. + Dam overflow  
A 225mm  $\varnothing$  pipe was installed to collect & divert this flow.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? No

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.

✓  
entered  
26/1/09

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		VOB NO.	
4		GOLDER ASSOCIATES PTY	
		26 NOV 2009	
		SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Maidens Bush Rd near Henry Kendall Village

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The creeks have a build up of rubbish and weeds ~~which~~ which impact on water traveling through the area

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

cleaning area of noxious weeds

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

✓ Entered  
26/11/09

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NO.

GOLDER ASSOCIATES PTY

26 NOV 2009

SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... NARARA VALLEY .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

✓  
entered  
26/11/09



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GOLDER ASSOCIATES PTY LTD

26 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: <sup>on</sup> showground road Pacific Hwy  
West Gosford near the race course

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	?	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |
- N/A

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- N/A
- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



✓  
answered  
26/11/09

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by 20 November 2009.

*THIS INFORMATION RECEIVED IN MAIL 23/11/09 !!*

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	
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GOLDER ASSOCIATES PTY LTD

26 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... PACIFIC HIGHWAY - WYOMING .....  
..... HANLON STREET - NARARA .....  
..... ROWENA ST - NARARA .....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1990 - 1994	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

✓ entered  
26/11/09

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4			JOB NO.	
			GOLDER ASSOCIATES PTY LTD	
			26 NOV 2009	
			SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: NARARA VALLEY DRIVE, NEAR NARARA STATION, WHERE THE ABOVE ROAD CROSSES OVER NARARA CREEK.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Some 30 years ago.	ALL DAY
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Approx 30 years ago, Council "CLEANED OUT" THE CREEK FROM DEANE ST SHOP NORTHWARDS. I HAVE NOT SEEN ANY SUBSTANTIAL FLOODING SINCE THEN.

IF COUNCIL CARRIES OUT ANOTHER "CLEAN OUT", THEN I BELIEVE FLOODING WILL BE KEPT AT A MINIMUM, IF ANY.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information? No.

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☐
- 4. Gosford Council ☐
- 5. Other (please specify) ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ — MAYBE, BUT IT WOULD BE EXTREME.

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☒
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

Just keep the main creek clear of silt + debris build up.

\*Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

1 IN 100

OUR PROPERTY IS SITUATED IN A DEVELOPMENT CONTROL AREA, DUE TO FLOODZONES.

I AM ABOUT TO APPLY TO COUNCIL TO BUILD AN EXTENSION TO OUR HOME. I HAVE TO MEET THE REQUIREMENTS RELATED TO A "MINIMUM FLOOR HEIGHT", TO WHICH OUR DEVELOPMENT DOES.

I DON'T WANT TO SEE COUNCIL, OR ANYONE ELSE "RAISE" THIS LEVEL, AS IT WOULD MAKE MY HOME AND DEVELOPMENT NOT COMPLY!

MANY THANKS, MARK HOLMES.

✓ Entered  
26/11/09

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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

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26 NOV 2009

SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

The flooding was caused by poor Council drainage  
off Manns Road & poor stormwater control  
from adjacent property(s) to the South  
The event was about 1986/1988

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input checked="" type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	150 mm	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	200 mm
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) Mud, External Doors  
Paint Work  
Estimate about \$10,000 - 00

DAMAGE \$10,000 - 00

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

Several Times  
If 'OTHER', please specify: Commercial Property Manns Road  
& Dell Road junction backing  
onto Manna Creek



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: c/r Manns Road & Dell Road  
Factory UNITS

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<u>Late 1980's</u>	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

May have old Records

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

We carried out Extensive, &  
Expensive remedial work down our  
Southern boundary to control the run  
off & poor surface water control as a  
result of Gosford Council inability &  
unwillingness to do anything - Nothing  
has changed!

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

yes we believe that the problem was caused by Gosford Council (then shire) approving the development of the commercial area at Wyung "Brooks Ave", named after Malcomb Brooks the then shire President. This development should have never been approved in our view.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

No warnings ever!

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

✓  
Autoref  
26/11/09

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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JOB NO.

GOLDER ASSOCIATES PTY LTD

26 NOV 2009

SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Paddy Clifton Oval / Showground Rd

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June 2007	all long weekend
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Flood was approx 800mm deep in Paddy Clifton  
oval canteen.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☒

Levees or flood walls

☐

Creek enlargement

☐

Bridge/Culvert enlargement

☐

Floodway construction

☐

House Raising

☐

Development Controls

☐

Other (please specify) .....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

✓  
entered  
26/11/09



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4			JOB NO.	
			GOLDER ASSOCIATES PTY LTD	
			26 NOV 2009	
			SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

TENDED TO WASH OUT NEWLY  
SOWN SEED AND PLANTS

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☒ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify:

Came in from North Door

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD 2 INCH FLOW OF WATER BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD AS ABOVE BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

GARDEN PLANTS

6B GOSFORD COUNCIL ACTED QUICKLY AND  
REMEDIED THE SEWERAGE HOLE TO TOTAL  
OVERFLOW WATER  
DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐  
COMMERCIAL ☐  
PARKS ☐

ROADS & PATHS ☒  
OTHER ☐

CLOSING OF  
DRAINAGE CAUSED  
MY PROPERTY  
AND CLEARED D.P.  
BY GOSFORD COUNCIL

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: CHAMBERLAIN AVENUE - BUT  
ALSO CLEARED UP BY (COSTFORD)  
COUNCIL

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	15-20 YEARS AGO	AFTER
2	HEAVY RAIN.	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

IT FLOWED IN FROM  
NEXT DOOR AND DOWN MY SIDE  
GARDEN -



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

*PROPERTY 1* YES ☒ NO ☒ *AS A CREEK RUNS THROUGH MY PROPERTY I GUESS IT'S A POSSIBILITY*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |

*CONSTRUCTION OF OVERFLOW  
WATER GATE BY GOSFORD COUNCIL*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



✓ entered  
26/11/09

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

		JOB NO.
4		GOLDER ASSOCIATES PTY LTD
		26 NOV 2009
		SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☒ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event?  
(Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....  
*GENERAL WATER ACROSS PROPERTY 6 to 8"*  
*OVERLAND FLOW*

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
*NIL*  
*GENERAL CLEAN UP*  
*MUD - ROCKS ETC*  
DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☐  
COMMERCIAL ☒ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....  
*CARAVAN PARK NEXT DOOR*  
*FLOODING*

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 516 Pacific H'way  
WYOMING  
CARAVAN PARK NEXT DOOR

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	SAME APPROX 1990	NIGHTTIME
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

PHOTOS



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

*NO*

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

*Keep creek flow clean.*

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☒

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

✓  
Entered  
2/12/09.  
P.D.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

		JOB NO.	
4		GOLDER ASSOCIATES PTY LTD	
		26 NOV 2009	
		SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ① RACECOURSE ROAD  
② MANN'S ROAD & FOUNTAIN ROADS

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	IN HEAVY RAIN FOR MANY YEARS	
2	& WHEN TIDE IS FULL IN BRISBANE	
3	WATER.	
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

PHOTOS OF LOCAL FLOODING ARE AVAILABLE  
FROM LOCAL NEWSPAPER ARCHIVES



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

NARRARA Creek Needs dredging from  
The RAINDY BRIDGE up AS FAR AS  
MALINA ROAD. Development over the years  
within this area has deposited silt that has  
blocked the outlet. In my youth I was on a yacht  
that was built up the creek and it was towed  
down to KRISBANE WATER 5' draught now have  
TROUBLE WITH OUTBOARD MOTOR.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

See Comments Above.  
(Q11)

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

Entered  
2/12/09  
RD.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4			JOB NO.	
			GOLDER ASSOCIATES PTY LTD	
			26 NOV 2009	
			SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: MASONS POE



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: DRAINS GET BLOCKED

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                          |
|------------------------------|--------------------------|
| Detention Basin              | <input type="checkbox"/> |
| Levees or flood walls        | <input type="checkbox"/> |
| Creek enlargement            | <input type="checkbox"/> |
| Bridge/Culvert enlargement   | <input type="checkbox"/> |
| Floodway construction        | <input type="checkbox"/> |
| House Raising                | <input type="checkbox"/> |
| Development Controls         | <input type="checkbox"/> |
| Other (please specify) ..... |                          |
| .....                        |                          |
| .....                        |                          |

WHY WORRY NOTHING GETS DONE  
ONLY TALK & SURVEYS.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

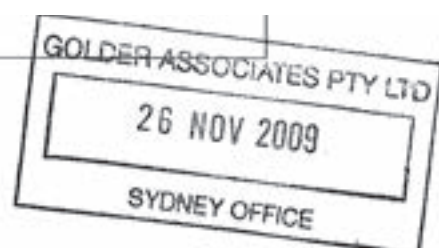
entered  
2/12/09  
RD

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10/26/09 10:00 AM 10/26/09 10:00 AM 10/26/09 10:00 AM 10/26/09 10:00 AM 10/26/09 10:00 AM 10/26/09 10:00 AM 10/26/09 10:00 AM 10/26/09 10:00 AM





Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

*Deane St.  
Hanlan St.*

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address (1) *Bridge in Deane St near The Bottle Shop*  
(2) *Corner of Hanlon St and Corrington Street*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>9-11th June 2007</i>	<i>2/3 days</i>
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*Referring to reply of Q8 + Q9*  
*This area lost access completely.*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

*Raising access*  
*roads to both*  
*areas - ref Q8, Q9.*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered .  
2/12/09  
RD

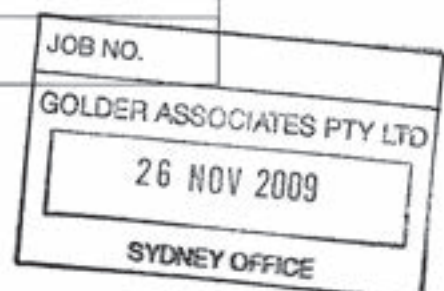


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Manns Road, West Gosford  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Maybe 1985 $\pm$ a year two.	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Over last year or two, following heavy  
downpours, Chamberlain Road often has water part  
way across the road - Valley View School side of  
the road, near Giselle St (?)

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Not in our  
area.

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                          |
|------------------------------|--------------------------|
| Detention Basin              | <input type="checkbox"/> |
| Levees or flood walls        | <input type="checkbox"/> |
| Creek enlargement            | <input type="checkbox"/> |
| Bridge/Culvert enlargement   | <input type="checkbox"/> |
| Floodway construction        | <input type="checkbox"/> |
| House Raising                | <input type="checkbox"/> |
| Development Controls         | <input type="checkbox"/> |
| Other (please specify) ..... |                          |

As I don't really understand  
these measures, how effective they are, and how much  
they cost, it's hard for me to comment.

It would be good to know the elevation (metres above sea level)  
of our house, and the local area generally,

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



entered  
2/12  
RD.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

all

4	Every year. for days at a time. up to 1.5 m deep
---	--

JOB NO. \_\_\_\_\_

GOLDER ASSOCIATES PTY LTD

26 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	1.5 m	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Shed undermined  
approx \$1000 damage

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2	? ' <i>to Once a year for the last 22 years.</i>	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

*Maintain existing flood plain.  
ie No development in the flood plain  
(including new road constructions)*



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

enforced  
2/12/09  
RD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

3		
4		

JOB NO.
GOLDER ASSOCIATES PTY LTD
26 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: No .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
2/12/09  
RD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4			
			JOB NO.
			GOLDER ASSOCIATES PTY LTD
			26 NOV 2009
			SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	15cm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) No damage  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

Wyoming Creek ~~between~~ on Chamberlain Road  
on Day Street Reserve between Joyce Ave  
& Chamberlain Road needs to be kept  
clean or extend rock walls to prevent  
flooding of properties

entered.  
2/12/09  
PD.

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4		

JOB NO.

GOLDER ASSOCIATES PTY LTD

26 NOV 2009

SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

*we have never been flooded, however  
wyloming cr does pass through our front  
yard. In very heavy rain, the cr swells  
up to fifty feet wide & five ft deep  
maximum, but returns to normal, within one hr  
after rain stops*

Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....

DAMAGE \$.....

Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☐  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*we have lived here for  
fifty years & consider the creek to  
be an asset to our property*

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*we consider our property to be a detention / or retention basin, which slows the flow down,*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
2/12/09

RD



ID: 025

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

A  
copy

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JOB NO.
GOLDER ASSOCIATES PTY LTD
26 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



entered  
2/12/09  
PD.

Received 23/11/09.

11: 26

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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JOB NO.
GOLDER ASSOCIATES PTY LTD
26 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☒ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ☒ OTHER (as per Q4 above) ABOVE FLOOR  
on - Dignity close - Back into creek @ time LEVEL.

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Garage / Property Since  
SOLD.

DAMAGE \$ 55.

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☐  
COMMERCIAL ☒ OTHER ☐  
PARKS ☒

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: DIGNITY Close  
West Gosford

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	77	Early Am
2		@ high tide
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

When Whale Creek Flooded  
NARRARA creek &  
Surrounding houses cut  
to Roads - Pacific Hwy &  
Stauground Road



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

most buildings how ~~high~~  
in area.

original to Dignity close  
e manna Road

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify) .....  
.....  
.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

enforced  
2/12/09  
RD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

Received 23rd

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	
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JOB NO.
GOLDER ASSOCIATES PTY LTD
26 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

MOVED IN ON QUEENS B'DAY WEEKEND!  
ROAD FLOODED AT HANLAN ST  
AND BOTTEM OF PROPERTY FLOODED  
ANY HEAVY RAIN - PROPERTY FLOODS  
ALTHOUGH IS A FLOOD PLAIN!

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	2 m	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) NONE  
.....  
.....

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/> AS ABOVE
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

S/A

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

NO DAMAGE TO PROPERTY  
LOTS TO HOUSE

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
HOUSES WERE BUILT WITH INADEQUATE  
DRAINAGE  
HOUSE FLOODED THROUGH BAD PLUMBING  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ House No.

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

MORE CONCRETE  
IS NOT GOOD  
LESS DRAINAGE  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entfaced  
2/12/09.

PD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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JOB NO.

GOLDER ASSOCIATES PTY LTD

26 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... *SHAW GROUND RD* .....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

*Whenever it rained heavily.*

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*Traffic had to be diverted to other  
Route like Pacific Highway.*

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
2/12/09  
RD



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

- Q1.** Could you please provide us with your contact details as we may need to verify some of the information with you (Your contact details will remain completely CONFIDENTIAL).

Name: .....

Address: .....

.....

.....

Day time phone number: .....

E-mail: .....

- Q2.** How long have you lived / worked / shopped / run a business in the study area?

..... months

..... years

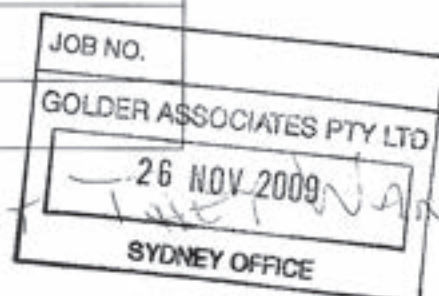
- Q3.** Have you ever experienced flooding at your property?

☐ YES

☐ NO (If NO, Please go to Q7)

If you answered YES, please give us the specific time of flooding as best as you can remember. Please also circle the largest flood in the list.

No.	Date	Time of the day
1		
2		
3		
4		



Council Do What  
ANYWAY  
Do Not Get Floored



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
2/12/09  
RD



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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---	--

JOB NO.

GOLDER ASSOCIATES PTY LTD

27 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

CREEK FLOODED ABOUT 6 INCHES 150mm  
OVER PAVERS IN PERGOLA

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	15cm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) NO DAMAGE

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

THE PIPES UNDER NARARA VALLEY  
DRIVE NEXT TO MY PROPERTY HAVE  
EASILY HANDLED THE MOST SEVERE  
DOWN POUR IN THE TIME I HAVE  
LIVED HERE AS I REGULARLY CLEAR  
DEBRIS FROM IN FRONT OF THEM.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |
|                            | .....                    |
|                            | .....                    |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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2/12/09  
PD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

		JOB NO.
4		GOLDER ASSOCIATES PT
		27 NOV 2009
		SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

- Heavy rainfall, blocked  
creek at back & it was  
high tide.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD 80 cm BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Lifted bitumen at  
car park. Burst  
Council storm water  
pipe.

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

*Terribin St  
Wyoming*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1980's	mid day
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*As witnessed by myself.*



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

*Keep creek clean  
& cleared of  
debris.*



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
2/12/09  
Ruby.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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4		

JOB NO.
GOLDER ASSOCIATES PTY LTD
27 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: *In front of 688 Pacific Hwy. NARARA*  
*The main highway cannot cope with very heavy*  
*rain in this section & also the junction of*  
*Berry's Head Road & Pacific Hwy. NARARA.*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

*NO*

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*The flooding of the above section of*  
*Pacific Hwy seems to be ~~due to~~ due to*  
*the banking of the roadway.*



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered

2/12/09

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{	4	least 6 times	

JOB NO.
GOLDER ASSOCIATES PTY LTD
27 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

June 07 Storms. Reeves Street. we were  
cut off for over 2 days.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☒

If 'OTHER', please specify: Near of property. Fountain creek flows through it.

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) 2m

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... Nil  
(such as building, fence, garage etc.)

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐

ROADS & PATHS ☐

COMMERCIAL ☐

OTHER ☒

PARKS ☐

If 'OTHER', please specify: No idea - as we are always cut off  
from the rest of the world!



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2	As per previous table	
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

Apes laid on Reeves  
Street causeway.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

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2/12/09  
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JOB NO.

GOLDER ASSOCIATES PTY LTD

27 NOV 2009

SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: WATER CAME UP THE GARGLENT  
OVER THE GRASS & THE ROAD

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

*Same as Before*

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

*OVER A DECADE AGO.*

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

SHOULD BE REGULARLY  
CLEANED (HAS BEEN  
DONE ONLY 3 OR 4 TIMES  
IN 30 YRS - NEEDS  
MORE ROCKS. & I WAS  
TOLD BY COUNCIL IN 1976  
THAT IT WAS GOING TO BE  
PIPED WITHIN 2 YRS - STILL  
WAITING



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.

entered  
2/12/09  
RD



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.

GOLDER ASSOCIATES PTY LTD

27 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: n/a .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify) .....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



entered .  
2/12/09  
FD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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JOB NO.

GOLDER ASSOCIATES PTY LTD

27 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	1000 mm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) fences, soil erosion  
along creek bed.

DAMAGE \$ 500.00

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: CARRINGTON St NAGARA.

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Severe soil erosion has now prompted  
us to invest in retaining. We plan  
to lay 6 mtr Rock mattresses to  
protect our property.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input checked="" type="checkbox"/> |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |
|                            | .....                               |
|                            | .....                               |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
2/12/09  
(RD)

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.	
GOLDER ASSOCIATES PTY LTD	
27 NOV 2009	
SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Railway Cres near Sara Lee  
~~Overseas Village~~  
Shengmud Rd, Mame Rd

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	July 2007	5pm
2	1998	3pm?
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Improved since first moving  
here in 1987. Floods of 2007  
were extreme & not the norm

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ ? Hasn't yet but any waterway  
can flood sometime

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

Not qualified to  
comment

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

enterec  
2/12/09  
(21)

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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JOB NO.

GOLDER ASSOCIATES PTY LTD

27 NOV 2009

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: There is underground pipes at the top of Callemondah Ave (Culdesac) in very heavy prolonged rain, the road was like a river. Cars were swept down the street.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	30 years or so years ago	late afternoon
2		early morning
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: After this happened larger pipes were installed to take the bigger volumes of water that we get to take to the creek at the end of our street.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

There are units and a home that have been built on the area just before the road and subsequently the creek. This area was where all the water went to, and just sat there.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
2/12/09

RD

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JOB NO.

GOLDER ASSOCIATES PTY LTD

27 NOV 2009

SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

*Have photos*

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED *NONE*  
(such as building, fence, garage etc.)

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☐

COMMERCIAL ☐

OTHER ☒

PARKS ☐

If 'OTHER', please specify: *School / Creek Easement*

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Wyoming Basic School

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1970s/80s/90s.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Photos

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |

WOOD CONTROL IN  
WILKINSON CREEK

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

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2/12/09  
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Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? *no*

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |     |
|-----------------------------------|--------------------------|-----|
| 1. State Emergency Services (SES) | <input type="checkbox"/> | no. |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |     |
| 3. Local Radio/TV                 | <input type="checkbox"/> |     |
| 4. Gosford Council                | <input type="checkbox"/> |     |
| 5. Other (please specify) .....   | <input type="checkbox"/> |     |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....  
.....  
.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



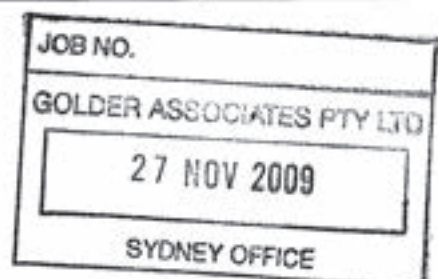
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Would you be able to provide some details of the largest flood:

.....submerged and damaged driveway.....  
.....bridge.....prevented access to the.....  
.....property due to depth of flowing water.....  
.....over the bridge.....

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....30cm.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....Bridge (driveway) was.....  
.....submerged by the flood.....  
.....and could not be used.....  
.....for vehicle traffic due.....  
.....to the damage.....

DAMAGE \$.....7,000.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 1. *Between 77 and 93 Garrington St Narara.*  
2. *Pandala St Narara.*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*Can show approximate height of flood  
and evidence of past floods*



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Inadequate drainage on the northern end of Cross St (undeveloped portion intersecting with Carrington St) causes overland flow across my property resulting in increased stream bank erosion where the water re-enters the creek.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

1. Better drainage works to handle storm-water flows.
2. Reduced development in the outer catchment areas.



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

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2/12/09  
RD

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JOB NO. <input type="text"/>	
GOLDER ASSOCIATES PTY LTD	
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SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? **NO**

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

*This has already been the case on properties either side of us.*

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

*When purchased property in November 2000. Flood line was on back fence line. Upon the development of Worrell Park the flood line is now up half way through our house. Council never notified us of this. We found out when putting Thank you for providing the above information. in a DA to extend deck out from top story and council refused application.*

*Currently this is the controls in place although there has been developments allowed even though they should not have been, including verandah's, extensions, fences, sheds, house extensions.*

*PLEASE EXPLAIN? our development application was refused!!! YET OTHERS WERE APPROVED.*

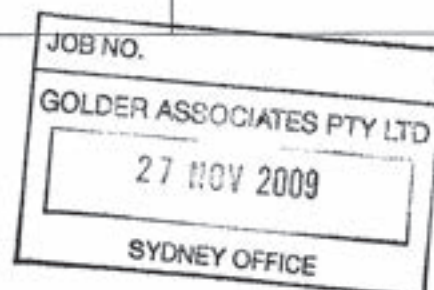
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Would you be able to provide some details of the largest flood:

VERY HEAVY RAIN

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	15 cm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)

.....

.....

.....

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: WINGEMO RESERVE, NORTH OF DALTON ST, WYOMING  
RAINFORREST RESERVE, AT BACK OF WYOMING PRIMARY SCHOOL

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	LONG WEEKEND, JUNE 2007	3-6 pm
2	NUMEROUS OTHER TIMES IN PERIODS OF HEAVY RAIN	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input checked="" type="checkbox"/> |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

.....REMOVAL of CRIPKING WEIR.....  
.....TO FACILITATE FLOW.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

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RD

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27 NOV 2009
SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Cuselle Ave  
Chamberlain Rd

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify) .....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
3/12/09  
PD



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

JOB NO.
GOLDER ASSOCIATES PTY LTD
27 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: *Place of work* .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Central Coast Leagues Club.  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1975	Evening
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....<br>.....<br>.....             |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.



entered  
3/12/09  
PP

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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JOB NO.

GOLDER ASSOCIATES PTY LTD

27 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ① June 2007 Narara Creek flooded the adjacent reserve behind my property (59 Malina Road Narara)  
② End Malina Road at Showground road intersection  
Floods EVERY time there is heavy rain

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	10 June 2007	all day
2	Corner Malina & } Showground Roads	anytime
3		
4		

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: Reserve behind No: 57 & 59 Malina Road flooded. June long weekend 2007. Narara Creek overflowed: - water extended to the rear boundary fences up to 0.5 metre deep. I have photographic evidence of this. Also at this time the stormwater drain at the front of 59 Malina Road overflowed water flooding the road & washing debris on to my front yard.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Creek bank erosion is occurring which will increase the likelihood & extent of flooding at the rear of my property. The erosion is caused by boats & jet skis speeding along this section. The 6 knot speed limit is neither policed or adhered to.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |
|                            | .....                               |
|                            | .....                               |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

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3/12/99  
FD

10: 047

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	
JOB NO.	
GOLDER ASSOCIATES PTY LTD	
27 NOV 2009	
SYDNEY OFFICE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

Mountain View Ave is a short  
street with a steep  
slope. Storm water runs off  
easily into creek.

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

No

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
3/12/09  
(70)

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4	mainly in Spring & Summer
---	------------------------------



Would you be able to provide some details of the largest flood:

..... About a year ago the street was  
..... blocked for nearly 2 days .....

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD

☐

BUILDING (ABOVE FLOOR LEVEL)

☒

BACKYARD

☒

BUILDING (BELOW FLOOR LEVEL)

☒

GARAGE

☐

OTHER

☒

If 'OTHER', please specify:

..... Paddocks near Creek .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

.....

BUILDING (ABOVE FLOOR LEVEL)

..... 10 cm .....

BACKYARD

..... 20 cm .....

BUILDING (BELOW FLOOR LEVEL)

..... unknown .....

GARAGE

.....

OTHER (as per Q4 above)

..... 2-3 m .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

..... Nothing that couldn't  
..... be cleaned up .....

DAMAGE

\$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box):

RESIDENTIAL

☒

ROADS & PATHS

☒

COMMERCIAL

☒

OTHER

☒

PARKS

☒

If 'OTHER', please specify:

..... All low lying areas .....



Q8. If possible, can you please provide the address of the flood affected property/area? *on Racecourse rd & Hwy West Gosford*

Address: *Reeves st around dip in road*

*Henlan st near dip*

*Hwy at Gales Wyoming*

*Shawground Rd in Middle near State Park*

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>Several times a year every year</i>	<i>mainly at</i>
2		<i>high tide.</i>
3		
4		

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*Video of Reeves st. Narara*

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
It would help if the drains  
..... were cleaned at the sides of  
the road as they fill with soil  
..... and flood twice as bad and  
more often, for longer  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☒
- 4. Gosford Council ☐
- 5. Other (please specify) *After it happens* ☒

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☒
- Bridge/Culvert enlargement ☒
- Floodway construction ☒
- House Raising ☐
- Development Controls ☒
- Other (please specify)

.....  
Digging out drains  
yearly.  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered

3/12/09

RD

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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	SOME MAJOR. 1592 -	1216003 12170 HEMUS
JOB NO. GOLDER ASSOCIATES PTY LTD 27 NOV 2009 SYDNEY OFFICE		



Would you be able to provide some details of the largest flood:

yes By REMOVED PHOTOS

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☒

BUILDING (ABOVE FLOOR LEVEL) ☒

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☒

OTHER ☐

If 'OTHER', please specify:

Pool Pans Dec Areas Fences with 2/3  
the property  
Foot Print

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD 300mm

BUILDING (ABOVE FLOOR LEVEL) 200/300mm Split Level

BACKYARD

BUILDING (BELOW FLOOR LEVEL)

GARAGE 300mm

OTHER (as per Q4 above) Pool - Pans Dec Area

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

Pool. Popped from Ground

Fences L & R.

DAMAGE

?  
\$ 10,000

What amount expenses inside house  
& exterior

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☒

If 'OTHER', please specify:

WATER STRUCTURE

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: WILLOW OF NEAR CREEK AREA OF  
NARRARA CREEK

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<u>22 Q 3.</u>	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

I THINK I CAN FIND PHOTOS ETC. NEED TIME TO  
LOOK. WILL DO SO IN NEXT COUPLE OF DAYS SO  
THEY WILL BE AVAILABLE SHOULD YOU DESIRE TO  
VIEW THEM HERE.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

LAST CAPTAIN WORK GRASS IMPROVED much.  
CURBEN PROBLEM IS SUTING + DEBRIS COLLECTION!

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☒
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

Remove Channel Dirt  
Remove Debris Buildup



**Q15.** Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?

No development should be allowed in any area that is currently flooded or is likely to flood in future ☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16.** Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

*YES. HARD SURFACES ~~SHOULD~~ DRAIN OF TO QUEENLY FOR CHANGE TO COPE. NEED TO SLOW DOWN WATER RUN OF EC. NO MORE DEN. NO MORE HARD SURFACES*

*NO GOOD* ☐ *NO MORE DEN. NO MORE HARD SURFACES*

*NO GOOD* ☐ *NO GOOD* ☐

*STOP DEVELOPMENT & CONTROL RATE OF RUN OF.*

Thank you for providing the above information.

entered  
3/12/09  
70



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	
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JOB NO.
GOLDER ASSOCIATES PTY LTD
27 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

ENTIRE PROPERTY WAS SURROUNDED BY FLOODWATER FOR  
3 DAYS

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input checked="" type="checkbox"/>
GARAGE	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	15cm	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	15cm	BUILDING (BELOW FLOOR LEVEL)	10cm
GARAGE	10cm	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)

FROZEN FOOD IN FREEZER IN GARAGE  
(NO POWER FOR 4 DAYS) ITEMS ON  
FLOOR OF GARAGE

DAMAGE \$ 550.00

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: SOUTHERN END OF KONSILUE PARADE NARARA INCLUDING  
NOS 1, 3, 5, 7 AND 9

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

FLOOD OCCURRED AT THE BEGINNING OF JUNE 2007 (DO  
NOT HAVE DATES) BUT STARTED ON THE FRIDAY IN THE LATE  
MORNING AND THE PROPERTY WAS COMPLETELY SURROUNDED  
BY WATER UNTIL LATE ON THE MONDAY AFTERNOON. WE WERE  
VERY LUCKY THE WATER DID NOT ENTER THE HOUSE, AS IT WAS  
HIGHER THAN THE ENTRANCE. WE CAN SHOW THE EXACT LEVELS  
AT BOTH FRONT AND BACK OF THE HOUSE



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

SINCE MOVING HERE IN JUNE 2004 THIS FLOOD WAS THE ONLY  
ONE WE HAVE EXPERIENCED. THE AREA AFFECTED APPEARED TO  
BE LARGELY KOWINDEEIL PARADE AND PLANTS SOUTH OF  
IT

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                                     |
|------------------------------|-------------------------------------|
| Detention Basin              | <input checked="" type="checkbox"/> |
| Levees or flood walls        | <input checked="" type="checkbox"/> |
| Creek enlargement            | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement   | <input checked="" type="checkbox"/> |
| Floodway construction        | <input checked="" type="checkbox"/> |
| House Raising                | <input type="checkbox"/>            |
| Development Controls         | <input checked="" type="checkbox"/> |
| Other (please specify) ..... |                                     |
| .....                        |                                     |
| .....                        |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



entered  
4/12/09  
FD.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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4		

JOB NO.

GOLDER ASSOCIATES PTY LTD

27 NOV 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ ?

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....<br>.....<br>.....  |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
4/12/09  
RD

1D:052

JOB NO.
GOLDER ASSOCIATES PTY LTD
27 NOV 2009
SYDNEY OFFICE



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
4/12/09  
FR

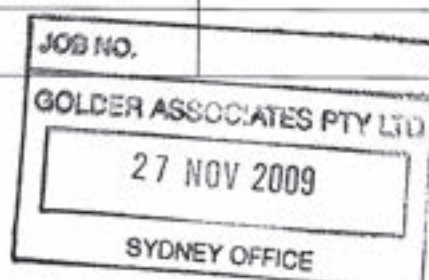


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	
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Would you be able to provide some details of the largest flood:

Flood peaks on high tide  
aprox 300mm Through  
the ground floor

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☒

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) 300mm

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Electronic controls  
in machine got wet  
and burned out when  
re started.

DAMAGE \$ 5,000

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☐

Water cuts showground Road  
near the skate park (west of)  
very regularly (mini train club)

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Showground Rd Near  
the model train complex

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

We drew a mark on the stairs  
indicating the peak level.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Flood water into the workshop  
occurred some 15-17 years prior  
to 2007 flood.  
This is the only other occurrence  
that any of our people can recall

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒ not really (2007 was special)

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

Road needs to be  
raised with culvert  
near the mini train  
club

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



entered  
4/12/07  
RD

10:034

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4		

JOB NO.
GOLDER ASSOCIATES PTY LTD
27 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
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.....  
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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered

4/12/09

RD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

JOB NO.
GOLDER ASSOCIATES PTY LTD
27 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: BETWEEN N°2 BRANCOURT & N°6  
BRANCOURT - STORM WATER DRAINS ON  
ROAD BLOCKED

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	A FEW YEARS AGO NOT SURE	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

THE CREEK GETS BLOCKED WITH  
RUBBISH AND BACKS UP FOR A  
LITTLE WHILE - BUT GETS AWAY  
QUICKLY.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO*

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

CREEK SHOULD  
BE CLEANED OUT

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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JOB NO.
GOLDER ASSOCIATES PTY LTD
27 NOV 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? *No*

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

N/A

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding? N/A

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*NO*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |

*KEEP CREEK BED  
FREE OF RUBBISH*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
4/12/09  
RB

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... junction of Alwyn  
..... & Callender  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2	No	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

At the back of our property a storm water drain overflows if not maintained by Council & water overflow affects the house next door (No 3)

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
4/12/09


PD



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

	JUNE 2007	MORNING
---	-----------	---------

Would you be able to provide some details of the largest flood:

.....  
FAST FLOWING WATER  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	60 CM	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |
|                            | .....                               |
|                            | .....                               |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



entered  
4/12/09  
FD

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: COUNCIL EASEMENTS

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... CREEK ..... THAT ..... CROSSES .....  
 ..... TURPENTINE LA .....  
 .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	When there is heavy rain	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....  
*Keep roads clean*  
.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
4/12/09  
RM -

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
4/12/09  
JH

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Received  
23/11/09

7.

4		
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Would you be able to provide some details of the largest flood:

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.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input checked="" type="checkbox"/>
GARAGE	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	<i>Pooling</i>
GARAGE	<i>Constant Swell</i>	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) *None*  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: 60 Sunset Street  
Alysoning

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Sustained wet weather	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

*I do not know  
enough about the  
subject to make  
a suggestion*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
4/12/00  
BN

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

*No. I have not seen any flood yet.*

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |   |                                     |
|---|-------------------------------------|
| 1. State Emergency Services (SES)       | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)          | <input type="checkbox"/>            |
| 3. Local Radio/TV                       | <input type="checkbox"/>            |
| 4. Gosford Council                      | <input type="checkbox"/>            |
| 5. Other (please specify) <i>Never.</i> | <input checked="" type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ *I do not know.*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....<br>.....<br>.....             |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
4/12/09  
RN



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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



Entered  
4/12/09  
RN

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... *NIL*  
(such as building, fence, garage etc.)  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
4/12/09  
ZM

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

Q8. If possible, can you please provide the address of the flood affected property/area?

- 1 Address: dean street
- 2 the street where Narara Valley High School is
- 3 ~~racecourse road~~ showground road  
(where the skate park is)

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<u>± 2004</u>	<u>morning</u>
2	<u>2003 or 2004 ?</u>	
3	<u>several times</u>	
4		

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
4/12/09  
RD

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	02 Night.
4	03 Night?

Would you be able to provide some details of the largest flood:

heaps of river sand, trees,  
in garage, steps etc.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD

☒

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD

☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE

☒

OTHER

☒

If 'OTHER', please specify: Redlocks

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

8

BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD

.....

BUILDING (BELOW FLOOR LEVEL) .....

GARAGE

5

OTHER (as per Q4 above) 8

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

garage, lawnmowers,  
freezers, fridges

DAMAGE \$2,000

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL

☒

ROADS & PATHS

☒

COMMERCIAL

☐

OTHER

☐

PARKS

☐

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Carr & Harker St,  
Warrack.  
.....  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	as above	Page 1
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Photograph, Newspapers  
etc.  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

help us clean the creek  
out, so they can get trees  
etc out so the water  
runs smooth and does not  
flood!

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input checked="" type="checkbox"/> |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |
|                            | .....                               |
|                            | .....                               |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

entere or  
4/12/09

(P)

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4		



Would you be able to provide some details of the largest flood:

COVERED 3/4 OF MY BACKYARD FOR 10' WIDE

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	<input checked="" type="checkbox"/> 6"	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) NO DAMAGED

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: A Paddock NEAR JEANE ST.

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: NO LOT NUMBERS ON THESE PADDocks  
BUT WOULD BE ABOUT LOT 18

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	LATE 70's	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | <input type="checkbox"/>            |

*CLEAR THE CREEK  
OF RUBBISH*

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
4/12/09  
RD



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4		

Would you be able to provide some details of the largest flood:

LATE 80'S FROM MEMORY -  
FROM DICKER MRS TO 1ST  
INTERSECTION ON LEFT

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD



BUILDING (ABOVE FLOOR LEVEL)



BACKYARD



BUILDING (BELOW FLOOR LEVEL)



GARAGE



OTHER



If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

.....

BUILDING (ABOVE FLOOR LEVEL)

2 METERS

BACKYARD

.....

BUILDING (BELOW FLOOR LEVEL)

1'

GARAGE

.....

OTHER (as per Q4 above)

1'

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

AS ABOVE

DAMAGE

\$ HOW WOULD I KNOW

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL



ROADS & PATHS



COMMERCIAL



OTHER



PARKS



If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: AS DESCRIBED PRIOR  
(SHOWGROUND RD.)

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	LATE 80'S -	ALL DAY
2		ALL NIGHT.
3	2006	
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

GO AND SEE ROBERT  
MOORE AT C.C. SMASH REPAIRS.  
HE HAS PHOTOS OF WATER  
OVER CAR ROOFS. THE  
LAST EFFORT COUNCIL MADE  
AT SHOWGROUND RD WAS PATHETIC.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



entered  
4/12/09  
RD

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--	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: *Our driveway and beside our property*

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Carrington St - Navara Valley Dr

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The failure of council to keep  
creek beside our property cleared  
of rubbish and debris causes creek  
to back up

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

cleaning of creeks



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
4/12/09  
RD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☒

Levees or flood walls

☒

Creek enlargement

☐

Bridge/Culvert enlargement

☒

Floodway construction

☒

House Raising

☐

Development Controls

☒

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

Entered  
4/12/09  
PD

M

ID: 071

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

No

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *Ni* .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
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.....  
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.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
4/12/09  
PD

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4		



Would you be able to provide some details of the largest flood:

Wyoming Creek rose after a week or so of heavy rain. The waters flooded our backyard smashing through 2 fibro walls in our garage, buckling the garage roller door.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☒

GARAGE ☒

OTHER ☐

If 'OTHER', please specify:

garage - up to approx 30-40 cm up the garage walls

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD 10-20 cm BUILDING (BELOW FLOOR LEVEL) 5 cm

GARAGE 30-40 cm OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Two holes in walls of garage, buckled garage roller door

DAMAGE \$600.00 approx.

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☐

COMMERCIAL ☒

OTHER ☒

PARKS ☐

If 'OTHER', please specify:

Doctor's surgery, next door backyard flooded up to back of building

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 16 & 18 Pennick St  
Wyoming  
2250

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

as previously stated

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Since Wyoming Creek was cleaned  
up & the vegetation reduced there  
has not been a problem

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☒
- 4. Gosford Council ☐
- 5. Other (please specify) ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☒
- Floodway construction ☒
- House Raising ☐
- Development Controls ☒
- Other (please specify)

Keep creek as free as  
possible of weeds, privot,  
rubbish



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

*for appropriate construction*

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
RP  
4/12/00



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: *Narara Valley Road*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>May 2007</i>	<i>3:00pm.</i>
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*Our site is an industrial site adjacent to Narara Creek catchment. There has been no recorded incidents where flood waters have encroached on our site*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



entire  
9/12/09  
RD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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4		

Would you be able to provide some details of the largest flood:

2003 Could not get out of  
my house

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD

☒

BUILDING (ABOVE FLOOR LEVEL)

☐

BACKYARD

☐

BUILDING (BELOW FLOOR LEVEL)

☐

GARAGE

☐

OTHER

☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

1/2 m to

BUILDING (ABOVE FLOOR LEVEL)

BACKYARD

BUILDING (BELOW FLOOR LEVEL)

GARAGE

OTHER (as per Q4 above)

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

No Damage

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL

☐

ROADS & PATHS

☒

COMMERCIAL

☐

OTHER

☐

PARKS

☒

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: All of Carrington st from 63 to about 90 ✓

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Everytime it Rain Heavy ✓	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

it lifts up the Road and it is  
very dangerous.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                                     |
|------------------------------|-------------------------------------|
| Detention Basin              | <input checked="" type="checkbox"/> |
| Levees or flood walls        | <input type="checkbox"/>            |
| Creek enlargement            | <input type="checkbox"/>            |
| Bridge/Culvert enlargement   | <input type="checkbox"/>            |
| Floodway construction        | <input checked="" type="checkbox"/> |
| House Raising                | <input type="checkbox"/>            |
| Development Controls         | <input checked="" type="checkbox"/> |
| Other (please specify) ..... |                                     |
| .....                        |                                     |
| .....                        |                                     |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
4/12/09  
RP

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	Due to heavy rain
---	-------------------

have photos of mulching ~~at~~ into  
creek but can't +  
find at moments

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	<i>to floor level</i>	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

DAMAGE *??* \$.....

*Earth washed away  
due to erosion  
being filled in by  
construction across the creek*

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address:

Bradys Gully Rd  
Back of adl property

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

due to trees being topped and mulched into creek the cause has been altered to the point every time after heavy rain our land is being washed away

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

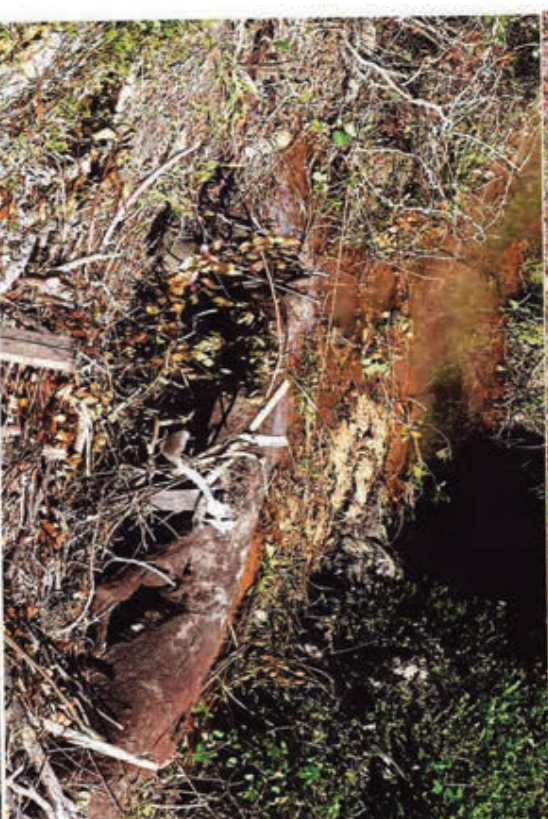
Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.

entered  
4/12/09  
RP







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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Carrington Street, Manns Rd.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	not sure. during winter.	Morning through to Night.
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



enforel  
4/12/09  
20



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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4		

Would you be able to provide some details of the largest flood:

Development of land behind our house - altered  
the natural water course - very heavy  
storm caused water to enter our  
property dumping water & silt - not  
necessarily because of the creek

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	20cm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	"	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Unknown - builder/developed  
paid for repairs.

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: The Wingello Creek bridge outside  
Henry Kendall Village on Maidens  
Brush Rd, WYOMING

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Occurs regularly with heavy downpours - especially if Council has not cleared leaf litter + rubbish from gutters + drains.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Wingello Creek - as it flows through  
+ under Maiden's Brush Rd Wyoming  
- needs clearing of lantern  
bamboo + rubbish -

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify) .....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



enforced  
4/12/09  
PD

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4		

Would you be able to provide some details of the largest flood:

HAVE PHOTOS OFF BACK YARD

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	600mm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ 500.00

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 103 CARRINGTON ST  
 99 CARRINGTON ST  
 97 CARRINGTON ST

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	9-6-2007	ALL WEEKEND
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

HAVE PHOTOS TO SHOW EXTENT  
 OF VOLUME OF WATER OVER  
 ALL ADJOINING PROPERTIES -



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

THE STORM WATER IS BEING DRAINED  
INTO A CREEK - WHICH IS VERY  
SLITTED UP - AND DUE TO OVER  
GROWN VEGETATION, AND OTHER THINGS  
WASH DOWN, IT IS CREATING A DAMMING  
AFFECT - AND OVER FLOWING BANKS  
ETC.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin



Levees or flood walls



Creek enlargement



Bridge/Culvert enlargement



Floodway construction



House Raising



Development Controls



Other (please specify)

.....  
.....  
.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

AS PER QUESTION 15.

Thank you for providing the above information.

entorell  
11/21/07  
P

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |
|                            | .....                               |
|                            | .....                               |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered .  
4/12/09  
RD

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

OVER LAND  
If 'OTHER', please specify: FLOODING OF PROPERTY ADJACENT, THE CREEK  
SPREAD OVER THE LOW LAND NEXT TO THE CREEK.



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: 75, 77, 79 DEANE STREET NAKASET.  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	2008 ?	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entire  
4/12/09  
PD

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4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: behind my house on the reserve  
where the creek runs  
(between Veronica + Roselands)

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Oct - Nov 06.	Weekend. (that big flood we had)
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

The creek water rose up to + past  
the fence lines of the houses in  
Roselands Ave Wyoming - My side on  
Veronica Crs was not affected as we  
are higher.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *No.*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....<br>.....<br>.....  |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



entered  
9/12/09  
PD



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box)

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS / ovals	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: Rural paddocks.

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: CARRINGTON ST. Narara  
SHAW GROUND RD. Narara  
MANN'S RD. Narara

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	everytime it rains.	
2	carrington St	
3	floods.	
4	blocks Rd if rain heavy.	

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

once we had overflow running from glenrock Rd. through our backyard down the side into front yard down to carrington St.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



entered  
4/12/09  
PP

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4		
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Would you be able to provide some details of the largest flood:

Approx half the racetrack was flooded  
after we received 388mm of rain in the  
24hr period.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☒

If 'OTHER', please specify: race and training tracks.

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) 300mm.

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Nil

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐

ROADS & PATHS ☐

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: .....

Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected



#### GOSFORD RIDES OUT THE STORM

A record 384mm of rain flooded Gosford Racecourse over the June long weekend which also seen meetings at Hawkesbury, Newcastle and Royal Randwick abandoned.

Gosford Racecourse, which is situated on the banks of the Narrara Creek, was hammered by heavy rain and high southerly winds reaching 140km per hour bringing down trees and power lines leaving local farmers wet and without power for most of the weekend.

In the 24 hours from Friday to Saturday the entire centre course was underwater including the sand and Proride tracks as well as sections of the course proper.

By high tide Saturday the Narrara Creek came within 15cm of flooding the course proper. Unfortunately, the centre sand track suffered severe damage which will result in the need for a total rebuild.

By Sunday morning and following extensive efforts by track manager Steve Scobie and his team, most of the surface water had disappeared with the change of tide. By Queen's Birthday Monday track staff had repaired the Proride running track to enable trainers to work horses.

One day after being battered by the worst storm in 30 years Gosford Race Club conducted the Golden Awards Lightning Stakes meeting a sell on a heavy track.

#### ITC'S UPCOMING MEETINGS

Thursday 26 July  
Thursday 9 August  
Thursday 30 August

GOSFORD  
GOSFORD  
GOSFORD

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input checked="" type="checkbox"/> |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
11/12/09  
RD

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 63/65/67 Nanara Valley Drive  
Nanara & KONIDRIE STREET  
plus others

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	can't remember but we have	
2	2/3 since we've been here, i.e.	
3	in the 1 in a 100 year flood	
4	prone area as were all advised by Council.	

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: photos



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

We have a high school in a flood area that has to have an evacuation plan, yet we're trying with the idea of using N/5 drive instead of the highway as the main route. Is there a particular reason why we would put a highway through a flood area? The only way I was able to put no to the re any house flooding is because it would

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) NEIGHBOURS ☒

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

have to go up hill. If that was the case probably Gosford would be under.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

entered  
4/12/09  
Po

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Hanlan St at Junction  
with Carrington St and also  
junction with Fountain Rd

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June Bank Holiday Storms - 2007	For a 24 hr period +
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

My property is on a rise  
and not affected by flooding but  
the road either side was in the  
2007 storms and neighbours lower  
gardens flooded when Narara Creek  
burst banks. Photos were taken.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                          |
|------------------------------|--------------------------|
| Detention Basin              | <input type="checkbox"/> |
| Levees or flood walls        | <input type="checkbox"/> |
| Creek enlargement            | <input type="checkbox"/> |
| Bridge/Culvert enlargement   | <input type="checkbox"/> |
| Floodway construction        | <input type="checkbox"/> |
| House Raising                | <input type="checkbox"/> |
| Development Controls         | <input type="checkbox"/> |
| Other (please specify) ..... |                          |

Don't know, that's your job!

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

entered  
9/12/09  
Rb.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

Creek burst its bank  
Bridge floods can't walk  
across it.

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Back of our houses by  
the creek No 33, 35  
The bridge over the creek

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin ☐

Levees or flood walls ☐

Creek enlargement ☐

Bridge/Culvert enlargement ☐

Floodway construction ☐

House Raising ☐

Development Controls ☒

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.

entered  
4/12/09  
RN



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Shongiron Rd around Adcock Park.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

According to the neighbour we are our  
property suffered flooding during the large storms  
of 2007. At this time our back yard  
was fully flooded by Narara Creek, this  
flood entered the house on the lower level  
to a height of about 60cm. The flood  
lasted approximately 30 minutes before subsiding.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Our property backs directly onto Narara creek. I have noticed that the creek can cope with large amounts of rain without flooding when at low tide. Then at high tide it comes close to flooding. A king tide represents the largest ~~chance~~<sup>risk</sup> of flooding.  
\* There is a large tree fallen in creek near model railway centre

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin



Levees or flood walls



Creek enlargement



Bridge/Culvert enlargement



Floodway construction



House Raising



Development Controls



Other (please specify)

? dredging.  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



Entered  
4/12/09  
RD.

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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 92-100 REEVES STREET  
NARARA

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	APPROX JUNE 2007	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

RESIDENTS AT 100 REEVES STREET MAY HAVE PHOTOGRAPHS OF FLOODING ON THEIR PROPERTY AND ADJACENT PROPERTIES.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *ND*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

*CAUSEWAY INCORPORATING  
STORMWATER PIPES WOULD  
ASSIST RESIDENTS FROM  
104 REEVES STREET  
ET SEQ.*



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
7/12/09  
RD

10:089

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1998 (?) - - - -  
 4 May 19 2004 (?) 7am to 9.00am  
 By far the worst.

Would you be able to provide some details of the largest flood:

Rain fell from about 1 a.m. to 7.45 or 8 a.m.  
(ABC broadcast that we'd had 113 mm!!)  
and the water level arose fast enough  
to trap horses on the land opposite  
Road really covered

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

If 'OTHER', please specify: my property above the flood-line  
but the road cut...

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) at least a metre over  
road

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: Opposite neighbour's  
to house



Q8. If possible, can you please provide the address of the flood affected property/area?

Address: *for All of Cassington Street from Manns Road to just beyond the school speed sign. Water also ran across my property at the back of my house, in two streams.*

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding? *one of which is usually a dry creek bed.*

No.	Date	Time of the day
1	<i>As already stated</i>	
2		
3		
4		

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

I moved here in 1987 and since then I've had some flooding in the dip behind my house & garage, perhaps 4-6 times including the one written about, after really heavy rain.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

NO

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

above 100 year flood level according to council.

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

The volume of water is great enough that I don't see any of the suggestions would be appropriate - it's obviously an ancient flood plain & flat as a tack.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

entered  
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AD

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St

4		
---	--	--



Would you be able to provide some details of the largest flood:

The largest one I can remember was when Whitton Street (now Henry Parry Dr) was cut off by floodwaters which came up to our back door in Haycock St in 1964

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☒

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

Backyard  
Toilet

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD  $\frac{1}{2}$  m

BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD 3 m

BUILDING (BELOW FLOOR LEVEL) .....

GARAGE .....

OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Outside dunny floated  
away

DAMAGE \$ ?

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☒

If 'OTHER', please specify: .....

Whitton Street + Showground  
Road



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Whitton Street + Cary St  
Shawground Road

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Regularly between	late 1950s
2		& up to 1990s
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

My family had to secure clothes line etc. so the logs didn't go down the creek during floods. Outside toilets didn't fare too well either!

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

yes, our floods always had  
clean water, now any excessive  
flow is filthy with other  
people's rubbish.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐

2. Bureau of Meteorology (BOM) ☐

3. Local Radio/TV ☐

4. Gosford Council ☐

5. Other (please specify) Schools ☐ during 50s + 60s

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

NOT SINCE COUNCIL WORK  
ABOUT 15 YRS AGO.

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin ☐

Levees or flood walls ☐

Creek enlargement ☒

Bridge/Culvert enlargement ☐

Floodway construction ☐

House Raising ☐

Development Controls ☐

Other (please specify) .....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
7/12/09  
Rd

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 34 CHAMBERLAIN RD.  
WYOMING (ADJACENT HS!)

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	MAY 24th 2001	3. pm - 4 pm
2	Three other such events have occurred since, of varying severity - soon dissipated.	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

With heavy falls, there is some overland flow into a natural basin. Approximate area 1250 sqm.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The overland flow  
generally disappears within  
an hour

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? **NO**

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

Entered  
7/12/09  
RD



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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	..... N/A
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) ..... N/A  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

CAUSEWAY  
ON ROADS 5'

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	THIS YEAR	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
WE HAVE A SMALL CREEK  
.....  
THAT RUNS ACROSS THE BACK OF  
.....  
OUR LAND -  
.....  
IT NEVER RISES ABOVE THE  
.....  
UPPER BANK .

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

No

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒

NO ☐

LOWER BACK PART of PROPERTY

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |
|                            | .....                    |
|                            | .....                    |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



entered  
7/12/09  
RD

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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... RAILWAY CRESCENT  
..... NAARA JALLEY ROAD  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	NOT KNOWN	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
7/12/09  
RD

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4		
---	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: The culvert in Reeves St, near  
Cross St.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Don't remember these dates, but it has been flooded numerous times.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

I don't have any photos (I'm sure many local residents up this end of Reeves St do have), but since being the 2nd person to build this side of the creek in 1988, we would have had our access out (or in) ~~60 to 80~~ ~~times~~ blocked for a few hours 60 to 80 times I believe. I would suggest that the flooding has become less frequent in the last 5 years.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The road blockage could be very dangerous is a resident needed ambulance access in those flooded times. We are able to walk around, using the bridge on the 'private road' access just before the culvert. This is thru 'private property'..

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |
|                            | .....                               |
|                            | .....                               |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
7/12/09  
PB

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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD

☒

BUILDING (ABOVE FLOOR LEVEL)

☐

BACKYARD

☒

BUILDING (BELOW FLOOR LEVEL)

☐

GARAGE

☐

OTHER

☒

If 'OTHER', please specify:

*Came over back fence & filled swimming pool up with dirt from creek.*

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

.....

BUILDING (ABOVE FLOOR LEVEL)

.....

BACKYARD

.....

BUILDING (BELOW FLOOR LEVEL)

.....

GARAGE

.....

OTHER (as per Q4 above)

.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

*Pool area, clean pool out of dirt & sand.*

DAMAGE

*\$800.00*

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL

☐

ROADS & PATHS

☐

COMMERCIAL

☐

OTHER

☐

PARKS

☐

If 'OTHER', please specify:

.....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 16 Glencoe Ave  
Wyoming  
2250.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1991	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

*Keep creek clean  
of rubbish & make sure  
water can get away in  
heavy rain*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
7/12/09  
Rn

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Railway Crescent near Sunny bank Rd.

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

entered  
7/12/09  
RD



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: SHOWGROUND RD  
PARKS & ROADS OPPOSITE MALWA RD.  
mainly STH DIRECTION

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	2006	MIDDAY - ON
2	2007 storms	EVENING
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



entferepl  
7/12/19  
20

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	FEB 2008	NIGHT
4	JUNE 2009	NIGHT

Would you be able to provide some details of the largest flood:

FLOODING OCCURRED APPROX 1:30 TO 2:30 DURING THE NIGHT

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input checked="" type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input checked="" type="checkbox"/>
GARAGE	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	2 FT	BUILDING (ABOVE FLOOR LEVEL)	1/2 FT
BACKYARD	2 FT	BUILDING (BELOW FLOOR LEVEL)	2 FT
GARAGE	2 FT	OTHER (as per Q4 above)	

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) CONTENTS OF HOME INCLUDING COMPLETE NEW KITCHEN CARPETS TO ALL ROOMS

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: NO 9 KONINDERIE PRE  
LOWER END OF KONINDERIE PRE

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: PHOTO'S AVAILABLE ON REQUEST



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES)
2. Bureau of Meteorology (BOM)
3. Local Radio/TV
4. Gosford Council
5. Other (please specify) .....

☐ }  
☐ } NO  
☐ }  
☐ }  
☐ }

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                                     |
|------------------------------|-------------------------------------|
| Detention Basin              | <input type="checkbox"/>            |
| Levees or flood walls        | <input checked="" type="checkbox"/> |
| Creek enlargement            | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement   | <input checked="" type="checkbox"/> |
| Floodway construction        | <input type="checkbox"/>            |
| House Raising                | <input type="checkbox"/>            |
| Development Controls         | <input type="checkbox"/>            |
| Other (please specify) ..... |                                     |

AS WATER FLOW FROM HERE FLOWS INTO BROADWATER AT WEST GOSFORD  
THIS AREA SUBJECT TO FLOODING DURING WET WEATHER AND HIGH TIDES  
PERHAPS SOME DREDGING OF CREEK MAY EASE THIS SITUATION.



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
7/12/09  
RD

10.049

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 7B Maliwa Rd  
Nanana Creek NSW

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	2007 June Long weekend	Morning
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: Prior to 2007, big flood in 1987.

Long weekend in June, I think 2007.  
My bottom paddock flooded. Destroyed  
my brick BBQ near the creek  
and I pick up a picnic table &  
left it "askew". Not longer  
usable. Plenty of evidence remains.  
My neighbor (lower to my house)  
had water at their back door. I  
only had water at my bottom paddock.  
Subsided in 24 hrs.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☐
- 4. Gosford Council ☐
- 5. Other (please specify) *Nothing* ☒

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ *maybe* NO ☒

*Daily for short time - 24hrs*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

*Get rid of train bridge which caused sitting up in the first place!*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

P.S. My property has the most amazing array of frogs. Take care to ensure any development protects them!

entered  
7/12/09  
RD

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4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: SHOWGROUND RD. (RESIDENTIAL & INDUSTRIAL.)  
AND MANNS RD. NORTH END OF INDUSTRIAL  
AND NAARARA. AND. TATHRA ST. WEST GOSFORD  
AND. RACECOURSE RD INTERSECTION PACIFIC H/WAY

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding? AREB

No.	Date	Time of the day
1	1968/69	
2	1974 cyclone.	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

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.....

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.....

.....

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

OVER ALL THE YEARS I HAVE NOTICED THAT THE BAY BEHIND ADCOCK PARK (FAGAN BAY) WHICH IN THE 60'S HAD A DEEP CHANNEL TO THE RAILWAY BRIDGE AND BROADWATER IT IS NOW ALL SILTED UP AND THIS BACKS UP NARRARA CREEK MAKING THE WATER AT A HIGH TIDE EVEN HARDER TO ESCAPE AND BUILDS UP TO NARRARA & SHOWGROUND.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input checked="" type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

DREDGE ALL OF FAGAN'S BAY TO ALLOW FREE FLOW OF NARRARA CREEK.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒ *WITH RATE NOTICES*

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
7/12/09  
RD.



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Q1. How often do you visit the Narara Creek Flood Study area?

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: PANDALA ROAD INTERSECTION  
.....  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<del>DE</del> EARLY 2009	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

approx 200 mm deep fast flowing  
over landale road.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

Keep creek cleared  
& free of debris!  
as it is choked  
at present.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
7/12/09  
RD



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4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NOT IN THIS STREET

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin ☐

Levees or flood walls ☐

Creek enlargement ☒

Bridge/Culvert enlargement ☐

Floodway construction ☐

House Raising ☐

Development Controls ☐

Other (please specify)

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



entered  
7/12/09  
RD

10-103

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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? No

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *N/A* .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2	<i>N/A</i>	
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *no*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify) .....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

entered  
7/12/09  
ZD.

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211.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

When the "Big Storms" hit Gosford about 4? years ago, I noticed the creek behind my property (Wingello Ck) had overflowed its banks and filled up one of the low areas. Also my neighbour in No 18 told me that at one time, the water had risen up to the back fences.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☐
- 4. Gosford Council ☐
- 5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☐

POSSIBLY, under extreme conditions

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

Perhaps clearing out vegetation, regularly.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

— except improvements to existing dwellings.

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entire  
7/12/09  
JP

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
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.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ *Pamble*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15.** Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16.** Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

enforced  
1/12/09  
RD

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: FRONT OF STREET 26 TATUAA AVE.  
VACANT PROPERTY- END OF TATUAA AVE

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	?	OVER NIGHT
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

..... NO FLOODING IN THE PAST 10 YEARS. ....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ ☒ INFREQUENTLY IF EVER

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

..... PREVIOUS COUNCIL PROJECTS  
..... SEEM ADEQUATE FOR  
..... OUR PROPERTY .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



entered  
7/12/09  
RD.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input checked="" type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	2 METRES .
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED *No .*  
(such as building, fence, garage etc.)  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: SHOWGROUND RD  
BIRRU ROAD.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	OVER PAGE	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

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.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☐
- 4. Gosford Council ☐
- 5. Other (please specify) ..... **NOTHING** ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☒
- Creek enlargement ☐
- Bridge/Culvert enlargement ☒
- Floodway construction ☒
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....  
.....  
.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



Entered  
7/12/09  
PD.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ROSELANDS AVE. WYOMING  
EASTEN SIDE, OR CREEK SIDE "WINGELLO CREEK"

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	SOME TIME IN 1999?	A.M.
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
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.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

CLEANING VEGETATION  
FROM CREEK



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
7/12/09  
RD

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

... details as we may need to verify

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 16 Reeves St Narara  
 22-24-26 Reeves St (all lower than 16 Reeves)  
 Ann Close, cnr Matwar showground Rd  
 Access to Narara Valley High, Carrington Rd.

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	? 1988 - early to mid	night mostly
2	? 2007/2008	
3	? 1989/90	
4		

(didn't document dates)

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

.....



You can hear the Creek ROAR  
when flows + with rain +

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Research Station Development  
Approval seems to have been  
approved - by who??

and with what Research??

Traffic has already gone M around  
here (esp. Rees St) in past 20 yrs.  
main rd.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☒
- Bridge/Culvert enlargement ☒
- Floodway construction ☐
- House Raising ☐
- Development Controls ☒
- Other (please specify) .....

☐

☐

☒

☒

☐

☐

☒

unsure of  
best way

Yes!!!

New development at Research Station Area  
a worry - much new housing → traffic +  
water flow loads. Who looked into THIS Proposal

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

entered  
7/2/09  
J.D.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

SEVERE RAINSTORM AND FLOODING  
OF CREEK/MAJOR DRAIN

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input checked="" type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>

If 'OTHER', please specify: POOL

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	6" TO 12"
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) CARPET, CABINET, FENCE

DAMAGE \$ SEVERAL THOUSAND \$

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: ROAD



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: SHOWGROUND ROAD  
.....  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	APPROX 12 YEARS AGO	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

AFTER THE 1992 STORM GOSFORD CITY  
COUNCIL BUILT A FLOOD LEVY AT REAR  
OF OUR PROPERTY

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

entered  
7/12/09  
RD

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: PADDY CLIFTON Oval, SHOWGROUND ①  
 ROAD, NARARA  
 CARRINGTON ST, NARARA NEAR NARARA Varsity ②  
 HIGH SCHOOL

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	2008	OVERNIGHT
2	2009	All day.
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address:

NARARA VALLEY DRIVE / SHAWGUMS DR

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE 2007	All Day
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒

NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Photo

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.





10:114  
Please Note that we only received this  
on 22/11/09

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Would you be able to provide some details of the largest flood:

CAME OVER FRONT VERANDAH  $\approx$  900cm above  
ground. happened at high tide - pressure  
cracked fibro fence & pushed wooden gates  
that normally opened in - outwards

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD

☒

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD

☒

BUILDING (BELOW FLOOR LEVEL) ☒

GARAGE

☐ N/A

OTHER

☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD 900cm BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD 900cm BUILDING (BELOW FLOOR LEVEL) 900cm

GARAGE — OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

fence piers under  
house gates car

DAMAGE \$ Several thousand

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... Kanindere Pde Narara .....  
..... Narara Valley Dr " .....  
..... Deane St " .....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1992	
2	1991	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

..... in the 31 years we have been here  
..... it appears it floods only when the  
..... water can't get past the high tidal  
..... influence  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

.....  
.....  
.....

last resort.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ....106-114...showground...Rd.....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June 2006 : app. 26	5-30
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: Blurred photo of whole road cut  
off  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





Received 23.11.09.

1D:117

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>

If 'OTHER', please specify: Wetlands

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	<input checked="" type="checkbox"/> to depth of <del>1</del> 3 metres related by neighbours.

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.)  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: Wetlands at Bottom of property + Showground Rd, park. opposite

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	During heavy rainfall because 146.	
2	Manns Rd has no bush & nows every	
3	week water sits on their property but	
4	when' it flows into auto. it sits in low area or soaks in becouse ground is soft.	

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Q9 applies here. & flooding occurs only on wet lands. Neighbours say previous floods have come to slope of hill on which my house is situated. as you know since the big floods that hit Nussara Rd Arina + Nakata & Springfield No great floods have occurred,

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Since being flooded at Nerrissa Rd. Enia  
Rain has not reached heights & Volume.  
also rock areas in Wyoming & along creeks  
has been of help.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☒
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) looking out Window ☒

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☒
- Other (please specify) ✓

Maintain Creek area such  
as silt deposit from housing  
clean trees that have fallen  
so they don't trap against  
bridges eg Bridge on Manns Rd  
which silt levels can be seen.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

To whom it may concern.

Factories along Showground Rd.

and Manns Rd West Gosford. have been allowed to

raise land they are built on thereby causing water that would have been spread & diffused over area to raise on land elsewhere. Build these buildings elsewhere they are not a blot on a lovely creek. Before any study begins should be compulsory to boat up this wildlife area.

Q17 How many in this study have done it





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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & <del>PATHS</del>	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

.....

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.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: NARARA VALLEY DRIVE - THE ROAD BRIDGE  
OVER NARARA CREEK - OPPOSITE ENTRY TO WESTERN  
PARKING AT NARARA STATION.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE 2007	AFTERNOON
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

WE HAVE LIVED HERE 31 YEARS. THIS CREEK  
HAS FLOODED BEFORE BUT NOT OVER THE ROAD  
LIKE THIS ONE. ON THE PHOTO YOU CAN SEE  
THE ENTRANCE TO NARARA STATION FROM NARARA  
VALLEY DRIVE. WITH APOLOGIES FOR PHOTO - TAKEN  
UNDER AN UMBRELLA WITH ONE HAND. HOPE IT CAN  
BE OF SOME USE.

With Kind Regards  
Bronwyn Hanner



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

FOR MANY YEARS NARARA CREEK HAS BEEN  
CHOKED WITH WEEDS ON THE NEWCASTLE SIDE  
OF THE BRIDGE, EXTENDING BACK TOWARDS  
NIAGARA PARK

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

CLEARING OF NARARA  
CREEK OF EXTENSIVE  
WEED GROWTH.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.









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\* Note: we don't remember particular dates, but we have flooding on our property on a floodplain whenever there is a heavy downpour. This occurs 4 or 5 times a year, maybe more.

Would you be able to provide some details of the largest flood:

The water level rose to the floor level of  
our chicken coop. Maybe 10 cm depth.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD 10 cm BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Boundary fence destroyed.

DAMAGE \$2,000.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? No

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☐  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

We have a fixed point ~~at~~ the water level reached on the June long weekend event 2007.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO*

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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echon,  
?  
m  
use.

4		
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Would you be able to provide some details of the largest flood:

Queens Birthday storm 2  
years ago. Only the very bottom  
of the property had river levels  
up, still a long distance from  
the house

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☒

If 'OTHER', please specify:

river (crown land)  
rise

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD .....

BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD .....

BUILDING (BELOW FLOOR LEVEL) .....

GARAGE .....

OTHER (as per Q4 above)

crown land  
about 1 foot under water  
at peak of storm.

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

no damage

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐

ROADS & PATHS ☐

COMMERCIAL ☐

OTHER ☒

PARKS ☐

If 'OTHER', please specify:

Oquirimbah Creek road  
same Queens B'day  
storm.

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address:

Hidden Valley  
Ourimbah Creek Rd.

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? **NO**

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

not necessary  
house is  
elevated and  
quite a distance  
from creek.



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box):

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 95 MANNING RD - NARRARA.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	July. 2003	
2	JUNE 2007	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Well Documented DETAILS OF FLOODING  
IN COUNCIL RECORDS



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Kirkness Ave  
Nd. Garsford

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1990 ?	Daylight hours
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

Wetlands  
Tree planting

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

AS ABOVE. "CYCLONIC" WEATHER FOR A  
W/END. NARARA CREEK CAME UP TO  
THE LARGE TREE IN BACKYARD.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) 6 FEET  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)  
ENTIRE BACKYARD FENCE  
DESTROYED (OLD)

DAMAGE \$ 100 "NEW" POWER COORD - \$ 2,000.00

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: CRW SHAWGROVED & MANILA RD.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE 07	0400-0500HRS
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

NO.

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
  2. Bureau of Meteorology (BOM) ☐
  3. Local Radio/TV ☐
  4. Gosford Council ☐
  5. Other (please specify) ..... ☐
- NO.

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

**Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... N/A .....  
.....  
.....

**Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

N/A

No.	Date	Time of the day
1		
2		
3		
4		

**Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐ N/A

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

NO

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....<br>.....<br>.....  |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.





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*— Your letter received late ~ about 22/11.*

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

*No - saw water level - no photos*

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☒

If 'OTHER', please specify: *Block is about 2000m<sup>2</sup> - only about 20 m<sup>2</sup> flooded in front North West corner - No problem.*

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) *30 mm*

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... *Nil*  
(such as building, fence, garage etc.)

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☐

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: *house opposite on corner of Chamberlain Rd & Grizelle Ave had some water in it*

*Feb 80  
Not even road  
since 95.*

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *see Q7* .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>about Feb 1980</i>	<i>?</i>
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*about 1995.*  
*When new bridge was put in*  
*in front of our house water*  
*has not gone over it*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

*Nil.*



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

*Zoning certificates show flooding*

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: ..... *No* .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

N/A.

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

N/A

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☐

N/A

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

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.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

N/A

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

REGULARLY CLEARING  
ANY OBSTRUCTIONS FROM  
CREEK WHICH BUILD UP  
OVER TIME.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.



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Would you be able to provide some details of the largest flood:

• During the 'heavy' rain A June 2008.  
• Bottom of property - where creek runs - flowed  
outo plains - broke creek walls, lost  
trees, soils etc

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD 1 ft ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Bridges over creek  
Lawn / plants

DAMAGE \$ ?

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☒

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Corner of Carrington St and  
Pandala Rd ?

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

most times  
that we  
have counted  
rain + when  
high tide  
would  
be!

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ *only in bottom yard - away from house etc*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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Would you be able to provide some details of the largest flood:

N/W .....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? **No.**

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

**Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... N/A .....  
.....  
.....

**Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

N/A

No.	Date	Time of the day
1		
2		
3		
4		

**Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*No thank you.*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

*No.*

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO



**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

*Norara creek to be  
made deeper*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

what about the emergencies!  
How do the public and other become aware?

Thank you for providing the above information.

How will this information assist you?  
e.g. "inform a topographic survey" ok.  
what other ways will the info be used?





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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE      \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: *June long weekend*  
*from the 19th June to station*  
*end of street*

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Chamberlain Rd Wyoming between Gazelle and Day st.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	i think 2007 (late) - same time as deaths at	
2		Somerset when car washed away
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Creeks come up very quickly with torrential rain.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin ☐

Levees or flood walls ☐

Creek enlargement ☒

Bridge/Culvert enlargement ☐

Floodway construction ☐

House Raising ☐

Development Controls ☐

Other (please specify) .....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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4		
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Would you be able to provide some details of the largest flood:

WATER CAME INTO BACK YARD

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD 3 foot BUILDING (BELOW FLOOR LEVEL) ~~.....~~  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... NIL .....  
(such as building, fence, garage etc.)

DAMAGE \$ NIL

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☐  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: WHEN ROSELAND ST WAS IN CONSTRUCTION

THIS ESTATE WENT UNDER WATER 3 TIMES,  
THIS STREET BACKS ONTO WINGELLO CREEK

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ROSELANDS AVE

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	AROUND 1984	Day & Night
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

PHOTO BACK YARD



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



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Would you be able to provide some details of the largest flood:

A large part of Gosford was flooded  
Wingello Creek flooded & water came in  
the back corner of our backyard. It  
didn't cause us any problems.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	80mm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)

Nil

.....

.....

.....

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Dignity Crs West Gosford  
Show ground Rd.  
Race course Rd.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	About 1992	Saturday morning
2	About 2007	Friday afternoon
3	About 2007	Friday afternoon
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ *probably not now*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

*Keeping all areas of the creek clear of debris to allow water to get away*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

*Depending on what development we are talking about.*

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 51 HALCYON ST  
WYOMING 2250

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	MIDDLE 80	DAY TIME
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

WINGELLO CREEK JARRETT ST  
END  
HAS SINCE BEEN FIXED UP  
WITH A NEW PIPE

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





10:135

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4	November 30th 2007	3 am
	9th December	1.00 pm
5	3 Feb. 08	10.00 am



Would you be able to provide some details of the largest flood:

The long weekend of 2007 due to  
excessive rain Flooding occurred  
several times across our front  
yard + over our access bridge.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD



BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD



BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE



OTHER



If 'OTHER', please specify:

access bridge (shared by  
6 homes)

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

1m

BUILDING (ABOVE FLOOR LEVEL)

BACKYARD

BUILDING (BELOW FLOOR LEVEL)

GARAGE

OTHER (as per Q4 above)

1/2 m

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

DAMAGE

\$

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL



ROADS & PATHS



COMMERCIAL



OTHER



PARKS



If 'OTHER', please specify:

storm water drains  
couldn't cope in our street.



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Pacific Highway Showground Rd  
Carrington St, Reeves St, Malawa  
Rd Hanlan St.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	7th June 07	3:00 pm
2	8th June 07	2:00 pm
3	9th June 07	3 am
4	November 07	3 am

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....





Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

illegal filling of flood prone land has increased the amount of water we now get. illegal building of retaining walls has also been a problem. Rubbish build up in the creek has blocked the flow also.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ Fountain Creek is in my front yard.

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☒
- Bridge/Culvert enlargement ☒
- Floodway construction ☒
- House Raising ☐
- Development Controls ☒
- Other (please specify)

lowering the level of the railway dam at the top of Reeves St would make a major difference with creek enlargement.



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

Q.16. Council needs to act upon illegal fill. How much top dressing becomes filling of flood prone land? They need to really look, act and change this Council policy.





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11-DEC-2009

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

Rear of property: Wyoming Creek is  
flood reserve forms rear boundary.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☒

If 'OTHER', please specify: About 0.5-1.0 m below level  
of rear boundary.

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) See above

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

None

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐

ROADS & PATHS ☐

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

*N/A*

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

*- Preserve existing catchment contdys upstream.*



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: NARARA  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

*REEVES ST AT GR 446028  
GOSFORD TOPO GDA DATUM.*

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: CULVERT ON REEVES ST NARARA

GRID REF. 446028 GASTON 913135 MAP GDA DATUM

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

VARIOUS TIMES WITH HEAVY RAIN & HIGH TIDES.

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |   |                                     |
|---|-------------------------------------|
| Detention Basin   | <input type="checkbox"/>            |
| Levees or flood walls   | <input type="checkbox"/>            |
| Creek enlargement <i>CLEAR RUBBISH OUT OF FOUNTAIN CREEK DOWNSTREAM</i> | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement  | <input checked="" type="checkbox"/> |
| Floodway construction   | <input type="checkbox"/>            |
| House Raising   | <input type="checkbox"/>            |
| Development Controls  | <input type="checkbox"/>            |
| Other (please specify) .....  |                                     |
| .....   |                                     |
| .....   |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? *NO*

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? **NO.**

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

NA

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

NA

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☐

NA

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

NO

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |

Other (please specify)

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





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Wors

ous  
: in  
rs

4	10/6/09	

Would you be able to provide some details of the largest flood:

Friday 9/6/07 - 1.5m deep approx across  
back yard (Backs on to Narawa Creek) All roads  
into Fountains Rd Blocked by water,

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	1.5 m	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

100 meters of rural fencing  
destroyed.

Rubbish / Trees deposited on  
Block.

DAMAGE \$ ? .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... Hambur St floods to corner of Fountains Rd.  
..... Pandala St floods across oval.  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	9/6/07	
2		
3		
4		

worst

Numerous  
times in last  
3 years

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

I have a video of the June 07  
event showing our backyard and  
Neighbours.  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Although we have only been in the area for nearly 3 years, the locals tell us that the worst flooding occurs when it coincides with high tides. Any risk assessments should take into account any future sea level rises or storm surges.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

only after roads have already flooded.

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement + diversion. ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐

Other (please specify)

Creek diversion → Re-instate old creek line away from houses on Fountains Rd, may reduce the small nuisance flooding on properties but not the big ones. (See attached map). The old creek line has a Billabong on it.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



Possible  
Creek  
line  
(old  
creek)

EXISTING CREEK





## Property Description

UBD:	CCT77, A9	Lot Plan:	L6/DP771474
Zoning:	Scenic Protection		
Land Use:	General Rural		
Area:	18840 m <sup>2</sup>	VGM:	



## Sales History:

10/07/01

1

01/05/98

107,000

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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .... *Council LAND.* .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

*Have a look on the map.*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>In the last ten years; 203</i>	
2		
3	<i>three times</i>	
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒

NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*The creek is eating away the Council land; between my property and the creek.*  
*(Note: The reason is the amount of falling trees across the creek.)*



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



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4		
---	--	--

Would you be able to provide some details of the largest flood:

Creek would cut corner + come across property up to 2 metres at back of house

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☒

GARAGE ☒

OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD .....

BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ... 2mtrs

BUILDING (BELOW FLOOR LEVEL) ... 1 metre

GARAGE ... 2mtrs

OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Storm previously Damage  
was to clothesline, fence  
+ BBQ setting

DAMAGE \$ 2K

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☒

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ...*+ Car Wyoming Rd. + Central Coast Hwy.*  
*+ Racecourse Rd. Gosford.*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>Numerous occasions prior to 2000</i>	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

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.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Smell of current creek in result to  
building of weirs

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒ *not now.*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| Detention Basin                   | <input type="checkbox"/>            |
| Levees or flood walls <i>Done</i> | <input checked="" type="checkbox"/> |
| Creek enlargement <i>Done</i>     | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement        | <input type="checkbox"/>            |
| Floodway construction             | <input type="checkbox"/>            |
| House Raising                     | <input type="checkbox"/>            |
| Development Controls              | <input type="checkbox"/>            |
| Other (please specify)            |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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~~December 11th~~

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

		EARLY MORNING.
4	THERE HAVE BEEN OTHER OCCASIONS, DUE TO HEAVY RAIN AND TIDES	USUALLY OVERNIGHT AND EARLY MORNING.



Would you be able to provide some details of the largest flood:

STREET BEHIND US (KONINDERIE PRE) NEXT TO CREEK  
WAS KNEE DEEP IN WATER WHICH FLOWED  
THROUGH HOUSES AND BACK YARDS THROUGH TO  
OUR BACKYARD.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	100 mm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)

NIL

.....

.....

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: 865 NARARA VALLEY DRIVE, NARARA, NSW 2250  
 MOST OF KONINDERRIE PDE., DEANE STREET NARARA.  
 NARARA VALLEY DRIVE FROM NEAR PEARSON STREET  
 TO PAST THE RAILWAY STATION

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	SEE QUESTION 3	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

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.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *No.*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒ *ON CONCRETE SLAB 300 MM ABOVE GROUND LEVEL. ADJACENT PROPERTY IS BUILT LOWER.*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.





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4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: CARRING ST AND SURROUNDS

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

THE WATER CAN'T GET AWAY SO  
IT BACKS UP AND FLOODING OCCURS.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) LOCAL KNOWLEDGE ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

PROMEN DRAIN  
CONSTRUCTION WOULD  
STOP EROSION

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

PEOPLE ALREADY KNOW THEIR AREA AND HOW IT WORKS.

Thank you for providing the above information.





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4		

Would you be able to provide some details of the largest flood:

..... *yes* .....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>

If 'OTHER', please specify: *low lying creek flats*

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	<i>1 m</i>

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) *fences*

DAMAGE \$ *minimal*

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: *Harlan, Carrington Sts*  
*Fountains, Manns Rds.*



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Council has been extremely inconsistent and capricious in assessing DAs in flood prone areas of land fill in Fountain Rd.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

In years past a sand dredge operated in Narara Creek, removing sand for building supplies. It should be reintroduced to remove the massive siltation subsequent to construction of F3 thru' the headwaters of Narara Creek.



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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*mben*

	June 1986 :	
4		

Would you be able to provide some details of the largest flood:

The Water Level ~~to~~ broke the NARARA  
Creek embankment and flooded  
the ~~the~~ family property and business

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input checked="" type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	3 feet	BUILDING (ABOVE FLOOR LEVEL)	6 inches
BACKYARD	3 feet	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Building - Flood Coverings  
furniture - Vehicles - Plant + Equipment  
Nursery items

DAMAGE \$ 400,000

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
Photos of flooding over several years  
.....  
.....  
.....  
.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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4		
---	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



10:149

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	1983, 1996 WHILE WE HAVE BEEN HERE
4	We can't remember the dates, or even some of the years, that we have had bad floods.

It's always been flooding in 2 hours if we had 60mm of rain after freeway was build.



Would you be able to provide some details of the largest flood:

2007 LAST WORST FLOOD THAT WE HAD. WATER LEVEL WAS HIGHER THAN EVER BEFORE. YOU COULD NOT SEE THE FENCE POSTS. WATER WAS THAT HIGH. WE LOST THE FENCES, PLANTS AND WATER DAMAGED THE STONE WALL THAT HUSBAND BUILT UP TO SUPPORT THE CREEK BANK. WE HAD BIG CLEAN UP AFTER. THERE WAS HUGE LOGS, TREE STUMBS AND DEBRIS. ALSO THERE WAS LOTS OF SAND DUNES. WE DID GET ALL THAT FROM UPPER PART OF THE CREEK. WE CALLED THE COUNCIL TO COME AND HAVE A LOOK.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☒

If 'OTHER', please specify: HORSE STABLE

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD 1-2 METRES BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED FENCES, PLANTS  
(such as building, fence, garage etc.)  
.....  
.....

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☒

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

ALL IN NARARA  
Address: FOUNTAINS RD, HANLAN ST, PANDALA, DEAN ST.  
WE CAN'T GET OUT FROM OUR PLACE OR COME  
TO HOME BECAUSE ALL STREETS ARE FLOODED

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	when ever our property was flooded Same time above areas were under the water.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

WE HAVE MANY PHOTOS OF THE FLOODING  
WHERE WE ARE LIVING AND SOME OF THE  
SURROUNDINGS. WE CAN'T REMEMBER THE DATES OR  
PART OF THE YEARS.  
IF SOMEONE COMES TO SEE US WE CAN  
SHOW THEM.

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

WHEN EVER THE FREEWAY (F3) WAS BUILT WE HAVE HAD PROBLEM WITH THE SAND THAT HAS BEEN COMING DOWN BY FLOOD WATER. IT'S FILLED UP THE BOTTOM OF THE CREEK 1-1 1/2 METRES. IT'S HAS BEEN RISING UP MORE AND MORE AFTER EACH FLOODS. WE HAVE CALLED THE COUNCIL TWICE ABOUT THAT SAND PROBLEM AFTER 2007 FLOODS IN JUNE AND ONCE BEFORE THAT SOON AFTER F3 WAS BUILT, WHEN WE NOTICE ALL THAT SAND. BOTH TIMES SOMEONE CAME FROM THE COUNCIL, BUT NOTHING HAS HAPPENED TO FIX THE PROBLEM.

WE FEEL THAT THERE SHOULD NOT TO HAVE ANY MORE INDUSTRIAL DEVELOPMENT IN THIS AREA IN FUTURE BECAUSE WE WILL SUFFER WITH WATER

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information? *WE ARE SCARED TO GO OUT WHEN IS HEAVY RAIN BECAUSE IF YOU DON'T GET BACK TO HOME.*

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ + *ALSO WHEN FREEWAY WAS BUILD IT'S BEEN MORE FLOODING AND AND IT'S COME SO QUICKLY.*

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

WE HOPE YOU CAN UNDERSTAND  
WHAT I HAVE WRITTEN BECAUSE  
ENGLISH IS OUR SECOND LANGUAGE,  
WE HOPE THIS GIVES YOU SOME  
INFORMATION AND YOU ARE MOST  
WELCOME TO COME AND HAVE A LOOK  
THE PROBLEMS.  
(P.S. SOME TIMES WE COULD NOT GET TO WORK  
EITHER BECAUSE OUR STREET WAS UNDER  
THE WATER).

YOURS FAITHFULLY

Heena Jokinen





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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	
---	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Deane St. Karara used to  
flood prior to flood mitigation  
work undertaken a few years ago  
BP

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





17:15

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4		

JOB NO.
GOLDER ASSOCIATES PTY LTD
08 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☒

If 'OTHER', please specify: the actual creek area.

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED Nil  
(such as building, fence, garage etc.)  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: Lower reaches of Fountains o HANOM STREETS

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.



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4		
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JOB NO.
GOLDER ASSOCIATES PTY LTD
08 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$. .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Deane street shops  
hanlan Street South

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June long Weekend 2007	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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4		
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JOB NO.
GOLDER ASSOCIATES PTY LTD
08 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	1 mtr...	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

LOST BIRD COVERS AND  
SITED  
LOST 1/3 BACKYARD

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



**Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

**Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

**Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

NARRA CREEK COULD BE  
WEIR. SO WATER COULD BE  
USED TO IRRIGATE OVALS.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

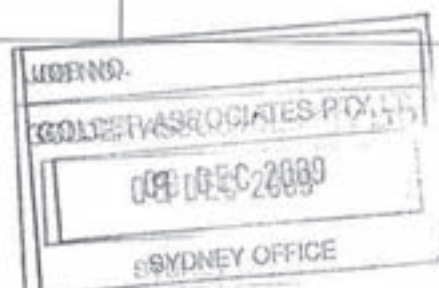


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	
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Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... LOWER SECTION OF CARRINGTON ST

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	DECEMBER 2007	MORNING
2	JUNE 2007	MORNING
3	? 2008	
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

RAISE LEVEL OF  
CARRINGTON STREET  
LOWER SECTION

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





112: 155

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

JOB NO.

GOLDER ASSOCIATES PTY LTD

09 DEC 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address:

Sheng ground Road  
N A K A A

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

abt 15  
10x years ago

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *No*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is ~~vulnerable~~ liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.





No.	Date	Time of the day
1		
2		
3		
4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? **NO**

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area? **NO**

If so, please provide the information below:

.....

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.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? **NO**

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

**CLEAN AND CLEAR  
DEBRIS, TREES RUBBISH  
CREATE A CLEAR FLOW  
THROUGH AREA**



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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4			
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FLOODING OCCURRED PRIOR TO  
COUNCIL & RAILWAYS IMPROVING  
DRAINAGE UNDER ~~RAILWAY~~ - INCLUDING  
PIPING UNDER A RAILWAY

JOB NO.  
GOLDER ASSOCIATES PTY LTD  
69 DEC 2009  
REPLY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	300 mm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)

No DAMAGE

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

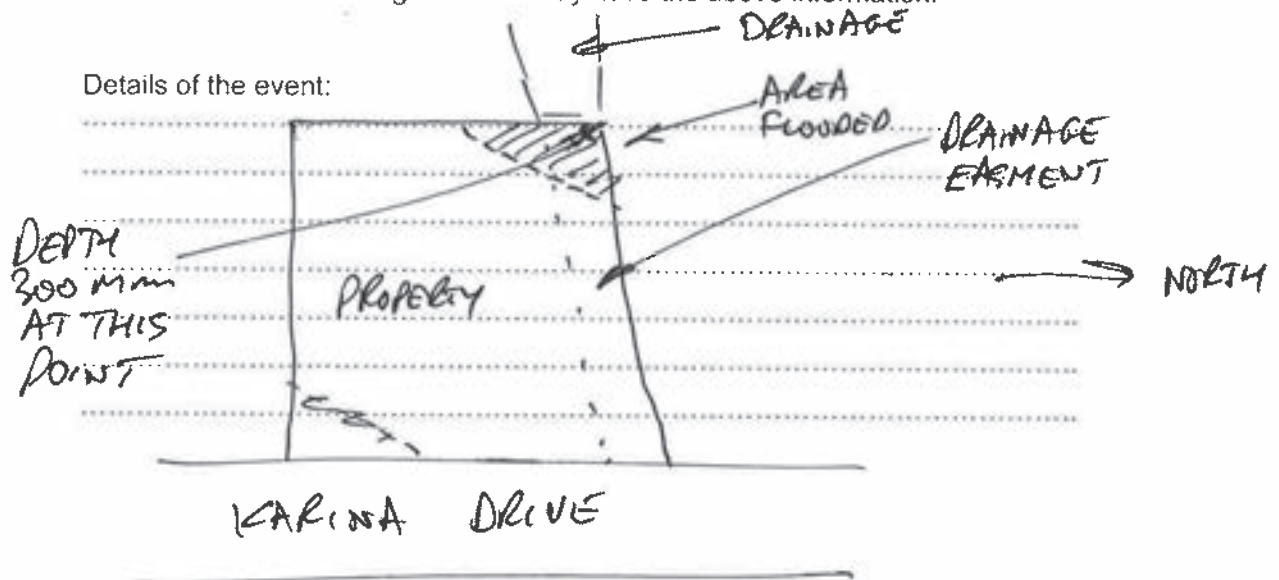
- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.





**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



10:158

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by 20 November 2009.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--

JOB NO.
GOLDER ASSOCIATES PTY LTD
09 DEC 2009
SYDNEY

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>	<i>PATH NEXT TO CREEK</i>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>	
PARKS	<input type="checkbox"/>			

If 'OTHER', please specify: *THE CREEK @ REAR 7 EXFC CL*  
*NARARA 14 MAY 2003*



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: CREEK RESERVE BANKS OF CREEK  
INCLUDING PUBLIC WALKWAY FOOT/CYCLE  
PATHWAY

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	14 MAY 2003	≈ 6:30 am
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

VIDEO SHOWS SWOLLEN  
CREEK OVERFLOWING BANKS PATHWAY  
IS FULLY SUBMERGED AND WATER  
IS REACHING UP TO FRUIT TREE  
(REMNANT OF NARRA ORCHARD WE THINK)  
AT THE REAR OF 7 ERIC CLOSE NARRA,  
TREE IS STILL ALIVE TODAY.

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

ON 2 OCCASIONS SINCE THE  
FLOODS OF 2003 I HAVE SEEN  
THE ROAD AT FRONT OF 7 ERIC  
CLOSE A RIVER OF WATER ~ 75mm  
DEEP SO ROAD WAS COVERED WITH WATER  
BUT CONTAINED BY GUTTERS. NEITHER  
OCCASION DID I SEE THE CREEK AT ROAD  
IN FLOOD LIKE 2003

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

No

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

Do Not Know

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

RAINFALL ST.  
WYOMING  
AT THE GULLY  
WINGERO CREEK



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

**Details of the event:**

Just small overland  
Flow off the hill behind  
our property corner in a  
windy / clock

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Our Property is serviced  
by a small road corner  
level Winella creek,  
Now Bica is the culvert,  
"Diameter" and is it  
overgrown ???

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☒
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

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Would you be able to provide some details of the largest flood:

*Lower yard area only.*

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	<i>300 mm</i>	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED *N.I*  
(such as building, fence, garage etc.)

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Approx half of my property at 125A Carrington St is wet land with a small creek running through it. In times of extended heavy rain (say 3 days) the wet land floods because water from the creek cannot get through the narrow culvert fast enough. This flooding sometimes extends into the lower areas of the yard.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

I am told by long time residents that in times of very heavy rain and very high tides the Carrington St. bridge area will flood. This has only occurred about 3 times in the past 20 years.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☐
- 4. Gosford Council ☐
- 5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☒
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Snowground Road.  
Near Bike track - oval.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	late pm.	June <sup>07</sup> long W/E
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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Would you be able to provide some details of the largest flood:

.....

.....

.....

.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of **flooding** for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged **property** and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you **describe** what type of property was affected?

For example, you may have observed **flooding** or overland flow in your street that affected a neighbour's property or **perhaps** near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.



We have only lived on the Central Coast. 5 years & have no idea where Narara Creek is so we can't answer these questions.

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

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.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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JOB NO.
GOLDER ASSOCIATES PTY LTD
10 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).


RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: NARARA VALLEY DRIVE (NR NARARA STATION);  
DEANE ST; MANNS RD NR NARARA VALLEY  
NURSERY; SHOWAROUND RD NR MALIWA RD &  
PADDY CLIFTON OVAL; ROWENA ROAD.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE LONG WEEKEND 2007? (FRIDAY)	MID TO LATE AFTERNOON
2	MANY TIMES IN YEARS 1989	
3	TO APPROX 2002.	
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

IN VERY HEAVY RAIN WE HAVE RAINWATER  
FLOW FROM THE HILL OF OUR STREET (NARDOMA  
ROAD) WHICH TURNS INTO OUR DRIVEWAY.  
(DUE TO POOR DRIVEWAY DESIGN) THIS FLOWS  
DOWN THE SIDE OF THE HOUSE BUT DOES  
NOT AFFECT IT, EVENTUALLY INTO STORMWATER  
EASEMENT IN OURS & NEIGHBOURS BACKYARDS



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

When we first moved here (Jan 1989) there seemed to be frequent flooding. However in the last ten or so years, the only flooding I can remember occurred in the big June Long Weekend storm. I think the flood mitigation works done a few years back have made a big difference.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |  |
|-----------------------------------|--|
| 1. State Emergency Services (SES) | <input type="checkbox"/>                                 |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>                                 |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> MORE A STORM WARNING |
| 4. Gosford Council                | <input type="checkbox"/> NOT SPECIFICALLY FLOODING       |
| 5. Other (please specify) .....   | <input type="checkbox"/>                                 |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

\* RAISING ROADS eg. CARRINGTON  
\* SHOWGROUND RD<sup>ST</sup>

\* CURBING & PROPER

DRAINAGE - MANY FLOOD-PRONE  
STREETS HAVE DIRT EDGES  
eg. DEANE ST, HANLAN ST

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

There should not be any control on development in the flood prone areas

☐ } SOMEWHERE BETWEEN THESE TWO.  
☐ }  
☐ UNDER NO CIRCUMSTANCES SHOULD MEDIUM or HIGH-DENSITY BE CONSIDERED.

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

Publish flood maps on Council website

Undertake a continuing flood awareness and community education program

☐☐☒

Thank you for providing the above information.

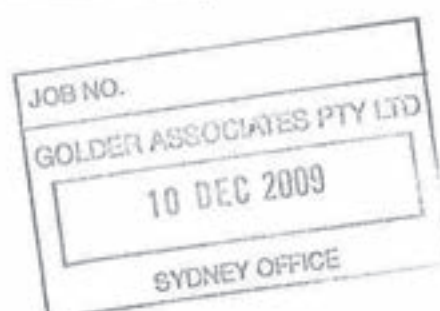


Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE      \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: RAILWAY CRESENT LISARDW  
BETWEEN PERRATT CLOSE + SUNNYBANK  
ROAD.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE 2007	MORNING
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

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.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

MY ANSWER IN QUESTION 7 + 8  
PROBABLY HAS MORE TO DO WITH  
INADEQUATE DRAINAGE, BECAUSE THE  
WATER USUALLY RECEEDS FAIRLY  
QUICKLY AFTER RAINFALL STOPS

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

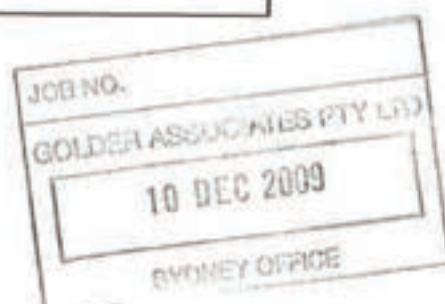
Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.





Would you be able to provide some details of the largest flood:

day that never had higher rainfall but state  
was the highest that flood water has reached  
that year and the year has had some rain  
up but the was the highest we have ever seen.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD 2.5m ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... None only backyard .....  
(such as building, fence, garage etc.)

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☒

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *Rever St Cambridge.*

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

*too many numerous times*

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*large amount of rain fell in short run of time. No debris it was also left side*

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

To keep creek free of debris so water can flow + not be blocked by overgrown vegetation.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

10.167

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JOB NO.
GOLDER ASSOCIATES PTY LTD
10 DEC 2009
SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☐

N/A

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? <sup>No</sup> If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- N/A.
- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



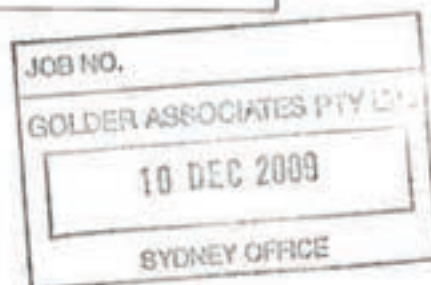


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

	<i>/ Const Associates the owner</i>	
4		



Would you be able to provide some details of the largest flood:

*Please refer to the enclosures.*

**Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: *\* Back of the property - at the bottom*

**Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) *1.2m approx.*  
GARAGE ..... OTHER (as per Q4 above) *1.2m approx*

**Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) *Garden Bridge and篱笆*

DAMAGE \$ *? say, \$3,000*

**Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☒  
PARKS ☒

If 'OTHER', please specify: *Every where along side of the Creek.*

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 60 FOUNTAINS ROAD  
NARARA

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June, 2007 (Long weekend)	
2	Whenever we have over 60mm	
3	rain fall, the bottom of	
4	our properties got flooded.	

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Please refer to the enclosures:  
1. A copy of letter to the Gungahlin Council after the June, 2007 flood.  
2. pictures show the damage and sand deposit.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*please refer to the enclosure -  
letter to the G. Council.*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☒

Levees or flood walls

☐

Creek enlargement *or deepen it*

☒

Bridge/Culvert enlargement

☐

Floodway construction

☒

House Raising

☐

Development Controls

☒

Other (please specify)

*constant clearing  
creek?  
Stop throwing  
rubbish.*

*Other - leave to you  
the expert and  
professional!!*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





18 June, 2007

Gosford City Council

Dear Sir/Madam

Re: Storm Effects

The storm that we experienced one week ago was said to be the biggest in the 17 years in Central Coast Area. Therefore we understand that the effect was extraordinary. However, we, residences within whose property the Narara Creek is running through, have been experiencing the flood damages quite frequently recently. Whenever the rain fall reaches over 60mm, the creek gets flooded and brings large amounts of sand as well as dead trees, logs, twigs, branches, rubbishes such as old fences, tyres etc.

We have observed that the creek bed has been risen considerably with the amount of sand carried in from the up stream. This causes the area to more easily flood. According to the older property owners, platypus and yabbie used to live in the creek. Even six years ago when we moved into this property we used to see eels, turtles and other fish. Now, these have disappeared completely due to the rising bottom of the creek.

Would you please consider and comment on the following three points.

1. To inform the owners of residences up stream not to dump their rubbish in their low part of property that the waste items would likely to be carried away by flood water and causing more damages in down stream residences property. (I together with other neighbors observed my neighbor placing branches and tree debris, old fence up stream that eventually floated back down again blocking other neighbors giving additional work to clean up. When informed of his conduct he completely ignored our advice as he believed the rubbishes were also coming down from further up stream).
2. Would the council consider cleaning up the creek bank and bed regularly?



3. The amount of sand coming down and filling up the creek bottom and surrounding area I feel requires investigation.

I attach some pictures for your reference. The pictures show the destruction on my bridge and a sand beach appeared in my green after the storm.

I appreciate the amount of damage done to Central Coat as result of the recent heavy rain and as result you must be exceedingly busy.

I am looking forward to receiving your comments in due course.

Yours faithfully,









10:169

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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JOB NO.
GOLDER ASSOCIATES PTY LTD
10 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

FLOOD WATER FROM CREEK ACROSS  
THE STREET CAME INTO FRONT YARD AND  
UP TO BASE OF HOUSE SLAB. WATER WAS 600MM  
DEEP AT FRONT GATE.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☒ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD 600mm BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☐  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 23 KONINDELE PUE  
NAGARA

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE LONG W/END.	4 PM. +
2	2007 Fri/SAT.	3 AM
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

LOWER REACHES OF CREEK ARE TIDAL  
CAUSING FLOOD WATER TO BACK UP ON  
HIGH TIDE

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



10:170

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

JOB NO.  
GOLDER ASSOCIATES PTY LTD  
10 DEC 2009  
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

JUNE 2008.. FOLLOWING SEVERAL DAYS OF EXTENSIVE  
RAIN, MAJOR POOLING OF WATER (APPROXIMATELY  
THE AMOUNT IN AN AVERAGE SWIMMING) ACCUMULATED  
ON OUR PROPERTY AS WELL AS TWO OF THE NEIGHBOURING  
PROPERTIES

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	1 metre..	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....

.....

.....

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

WE HAVE TAKEN SEVERAL PHOTOGRAPHS OVER THE YEARS.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

WATER THAT ACCUMULATED VIA THE STREETS TO THE  
FRONT OF OUR PROPERTY ENTER THE STORMWATER DRAIN  
IN OUR CUL-DE-SAC FOLLOW THE EASEMENT DOWN  
THE SIDE OF OUR PROPERTY OPENING AND SPILLING INTO  
OUR BACKYARD CROSSING INTO OUR NEIGHBOURS (BACKYARD)  
WHERE IT IS SUPPOSED TO EXIT VIA ANOTHER SMALLER  
DRAIN WHICH IS OFTEN OCCLUDED

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

PIPING THE TWO EXISTING  
OPEN DRAINS THEREFORE  
DIVERTING STORMWATER FROM  
THE STREET STRAIGHT INTO THE  
STORMWATER SYSTEM.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



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JOB NO.
GOLDER ASSOCIATES PTY LTD
10 DEC 2009
SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☐  
COMMERCIAL ☐ OTHER ☒  
PARKS ☐

If 'OTHER', please specify: .....

Blocked storm drains  
occasionally lead to water  
on roads

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address:

BEAUMONT AVE, WYOMING

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your **property** is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |

BETTER CLEARANCE  
OF STORM DRAINS

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



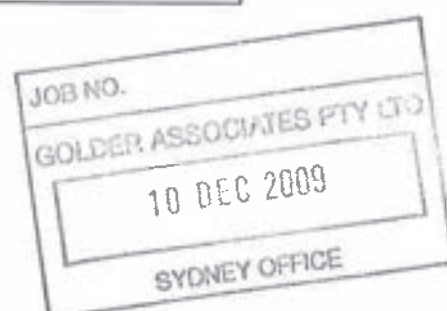


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below.

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.....

*No*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

*I do not know.*

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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JOB NO.
GOLDER ASSOCIATES PTY LTD
10 DEC 2009
GOLDER ASSOCIATES

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address:

Fairbairn Rd, Narenda  
Shayygrand Rd, Nt Gosford  
McGill St, Lisman

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June Long Weekend 2008	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

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.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

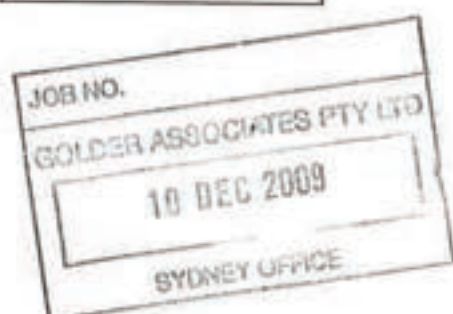


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--	--	--



Would you be able to provide some details of the largest flood:

10/7/07 The water came over the road at North Crs & ~~Bushy~~ Street that it ran down our driveway, flooded the garage, down the side of the house. Flooded front yard, we have no gurb & guttering. Dealers at Somersby at a farming

Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD



BUILDING (ABOVE FLOOR LEVEL)



BACKYARD



BUILDING (BELOW FLOOR LEVEL)



GARAGE



OTHER



If 'OTHER', please specify: .....

Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

1 metre

BUILDING (ABOVE FLOOR LEVEL)

BACKYARD

.....

BUILDING (BELOW FLOOR LEVEL)

GARAGE

1 metre

OTHER (as per Q4 above)

.....

Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

Garage is not  
usable

DAMAGE

\$ 5,000

Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL



ROADS & PATHS



COMMERCIAL



OTHER



PARKS



If 'OTHER', please specify: No gurb & guttering in

this suburb.  
Linden Street needs a larger  
drainage pipe.

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 10 NORTH CRES, NORTH CROSFORD  
9 NORTH CRES, NORTH CROSFORD

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	10/6/27	2pm
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

- 1) I can show you where it flows leaves marks on the house.
- 2) DAVID YEE 9 NORTH CRES has lived in this area for about 40 years. he can be contacted on 4325-7910



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Recent Blanche street drainage works have reduced risk of floods to rear of our property. This area needs drainage channels cleared & maintained & gully & guttering

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

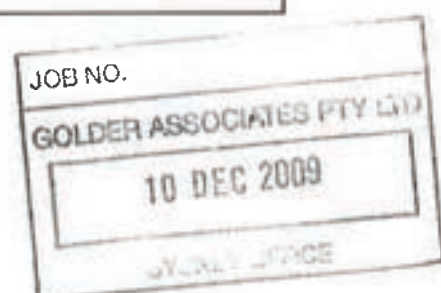


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--	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: CARRINGTON STREET AROUND  
PANDALA ROAD T INTERSECTION

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

*No*

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

FLOODING SEEMS TO BE TIDAL AND DOES  
NOT LAST FOR TOO LONG

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *No*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☒

Levees or flood walls

☐

Creek enlargement

☒

Bridge/Culvert enlargement

☐

Floodway construction

☒

House Raising

☐

Development Controls

☐

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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JOB NO.
GOLDER ASSOCIATES PTY LTD
10 DEC 2009
SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: Cas park .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Lisarrow Plaza, Lisarrow, Parson St.

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June 2007	Not sure
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

.....  
Keeping the <sup>pipes</sup> clean and  
unobstructed so that  
water can run off easily.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



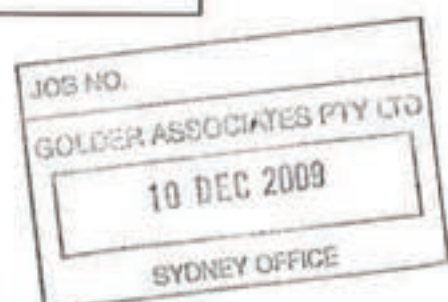


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: NO

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.





10:178

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.
GOLDER ASSOCIATES PTY LTD
10 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

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.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

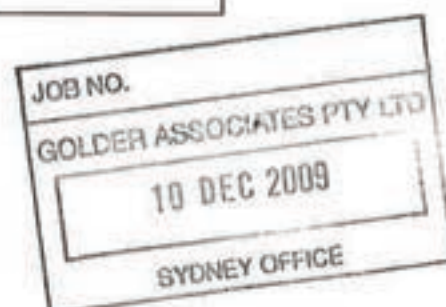


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Would you be able to provide some details of the largest flood:

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.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: *Narrara Valley High School*  
*Racecourse Rd. West Gosford.*

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Fountain Rd. Narara

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

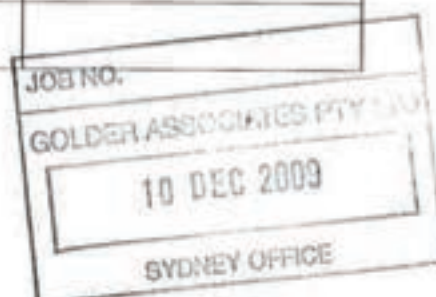


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE      \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

ADJOINING BLOCKS LOT 22 HANNS ROAD  
AND LOT 1 JIRANG ST FLOOD IN THE  
LATE 1980'S AND EARLY 1990'S AND SUBSEQUENT  
MAJOR FLOOD THREE ONCE IN ONE HUNDRED  
YEAR FLOODS AND SUBSEQUENT MINOR FLOODS  
AND KING TIDES

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



10-181

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~~Flood~~  
PLAN

\_\_\_\_\_

AND MINOR FLOODS IN  
SUBSEQUENT YEARS

160  
FLOODS IN  
4 YEARS

JOB NO.  
GOLDER ASSOCIATES  
10 DEC 2009  
SYDNEY



Would you be able to provide some details of the largest flood:

~~100~~ LOT 22 MANNING RD  
COMPLETELY UNDER WATER. WATER  
UP TO TWO METRES HIGH  
IN THE ONE IN ONE HUNDRED YEAR FLOOD,

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ N/A BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD N/A BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

N/A

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ N/A ROADS & PATHS ☐  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	THREE ONE IN A HUNDRED YEAR FLOODS IN LATE 1980'S EARLY 1990'S AND SUBSEQUENT FLOODS IN LATE YEARS	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

FLOODS CAUSE THE FLOOD PLAIN  
TO BE POBBLED WITH DEBRIS

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

SUBSEQUENT YEARS -  
MINOR FLOODING IS  
CAUSED BY KING TIDE



Would you be able to provide some details of the largest flood:

LOT / IRRAN STREET  
COMPLETELY UNDER WATER  
IN THE ONE IN ONE HUNDRED  
YEAR FLOODS

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

N/A

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	N/A	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

N/A

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

N/A

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	} THREE ON IN A HUNDRED	
2		
3		
4		
	YEAR FLOODS LATE 1980'S	
	AND EARLY 1990'S. AND	
	SUBSEQUENT MINOR FLOODS IN	
	LATER YEARS	

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

FLOODS CAUSE THE FLOOD PLAIN  
TO BE POLLUTED WITH  
DEBRIS

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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JOB NO.
GOLDER ASSOC - JAMES WYLLIE
11 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? *No*

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Our property (and several neighbouring properties) back onto a Council reserve (drainage reserve).  
Even during the June 2007 storms/flooding our property and the reserve to the north did not become inundated (ie. existing drainage systems seemed to cope well during this heavy rainfall event).

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information? No.

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box) Don't believe our property is at risk of flood damage.

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Creek runs through property, level has risen by approx 1m max over the 6 years. Flash flooding only. Never above the 1 in 100 zone. No real issue. Some times reverses →

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

DAMAGE \$ 0 .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

→ A floods on the covert. A lot of the time this is due to clogged drains under the road and in any case subsides with the rain.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



10:185

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	2006 - 2007	
---	-------------	--

JOB NO.
GOLDER ASSOCIATES PTY LTD
11 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

1989. not much drainage

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	3mtrs	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

EROSION & LOSS  
OF PLANTS &

DEADBOY TRAPED

DAMAGE \$.....

UNABLE TO PUT A PRICE AS IT WAS  
A LOT OF TOP SOIL EROSION

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

RESIDENTIAL YARDS & DRAINS

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: CARRINGTON ST NAREEA  
 RANDALL ST HANLAN ST  
 SHOWGROUND RD, RACECOURSE RD  
 NAREEA

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1989	all day.
2	1992	
3	2006 - 2007.	
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

THESE PHOTOS ARE TYPICAL  
 TO THE AREA 1989 - 2007

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

EASEMENTS NOT PROPERLY  
MAINTAINED FROM COUNCIL PROPERTY  
ONTO PRIVATE PROPERTY CAUSING  
MORE EROSION WHICH COULD  
HAVE BEEN PREVENTED TO THE  
CREEK.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |   |                                     |
|---|-------------------------------------|
| 1. State Emergency Services (SES)       | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)          | <input type="checkbox"/>            |
| 3. Local Radio/TV                       | <input checked="" type="checkbox"/> |
| 4. Gosford Council                      | <input type="checkbox"/>            |
| 5. Other (please specify) <u>POLICE</u> | <input checked="" type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.













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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--	--

JOB NO.
GOLDER ASSOCIATES
11 DEC 2000
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)  
.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address:

From Lick Creek - Ford  
SE on left.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	2 YEARS AGO	
2	FORGET THE	REST
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Robert Moore has photos of  
Cape Uruba water - He owns  
C-L Smart Repairs.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....  
.....  
.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.

10:187

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

JOB NO.
GOLDER ASSOCIATES PTY LTD
11 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

No

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☒ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD <sup>1 1/2 mtr</sup> BUILDING (ABOVE FLOOR LEVEL) .....  
<sup>creek came up</sup>  
BACKYARD <sup>about 4 mtr</sup> BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

only debris from  
flood

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☐  
COMMERCIAL ☐ OTHER ☒  
PARKS ☐

If 'OTHER', please specify: neighbours land

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Opposite 28 Hanlan St StH  
NARARA 2250

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	No	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Over my letter Box 28 Hanlan  
St StH NARARA 2250 at  
Front.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

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.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |  |                                     |
|--|-------------------------------------|
| 1. State Emergency Services (SES)              | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)                 | <input type="checkbox"/>            |
| 3. Local Radio/TV                              | <input type="checkbox"/>            |
| 4. Gosford Council                             | <input type="checkbox"/>            |
| 5. Other (please specify) ... <i>neighbour</i> | <input checked="" type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

*dredging creek*

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.





10:188

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.

GOLDER ASSOCIATES PTY LTD

11 DEC 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE      \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: ..... *No* .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... N/A

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

You'd be pretty dumb to buy a property in an area prone to flooding, wouldn't you? I avoided any areas which had flood signs, and bought one where run off would happen. The council has a drain at the bottom of my garden though, and I have noticed soil erosion around it, which I have rectified by filling in the holes it created + planting on top to prevent further erosion.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☒
2. Bureau of Meteorology (BOM) ☒
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ☐

The storms of 2007 or '08 - June.

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☐

Levees or flood walls

☐

Creek enlargement

☐

Bridge/Culvert enlargement

☐

Floodway construction

☐

House Raising

☐

Development Controls

☐

Other (please specify)

.....  
.....  
.....

Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?

No development should be allowed in any area that is currently flooded or is likely to flood in future

AMEN ☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls → Dumb

☐

There should not be any control on development in the flood prone areas → even dumber

☐

Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)

Send out a letter informing the flood affectation of the property

too late it you already live here

Publish flood maps on Council website

✓

☐

Undertake a continuing flood awareness and community education program

☐

→ Don't build houses in areas where one day, they will be inevitably flooded! It's

Thank you for providing the above information.

not rocket science!





10:189

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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.
GOLDER ASSOCIATES PTY
11 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

Bridge Alan Davidson  
Qual Back of  
33 35 in park

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address:

Allen Davidson Oval  
the bridge runs across the  
creek.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

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.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The bridge needs raising as you can't cross it as we have had heavy downpour many times the kids have had to take their socks & shoes off or have to go back.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☐
- 4. Gosford Council ☐
- 5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☒
- Bridge/Culvert enlargement ☒
- Floodway construction ☒
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





10:190

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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JOB NO.
GOLDER ASSOCIATES PTY LTD
11 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

Minor Flooding during heavy rain.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☒  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) ..... 15 cm  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) Stormwater Flooding up to the base of window frame

DAMAGE \$ Nil

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☐  
COMMERCIAL ☒ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Lisarow Shopping Centre car park.

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Unknown (only seen once)	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

I live adjacent to a small creek that goes underground through pipes under the neighbouring ~~water~~ property. I also have a stormwater main through my property. In heavy rain, stormwater bubbles up through drains on my property causing minor flooding around the house.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

No

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

*Some development appropriate. eg 2 story shopping centre with the car park only at the bottom, playing fields, etc.*

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





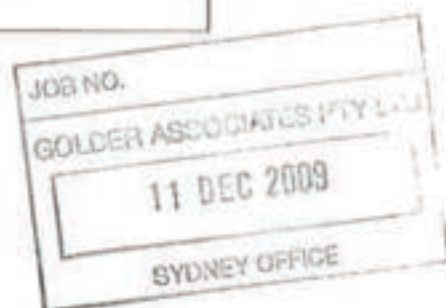
W:191

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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: BETWEEN JOYLE AVE &  
CAMBERGAIN RD (RESERVE AREA  
AROUND CREEK)

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	APRIL 2008	?
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒ (UNLESS EXTRAORDINARY RAINS)

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





10:192

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

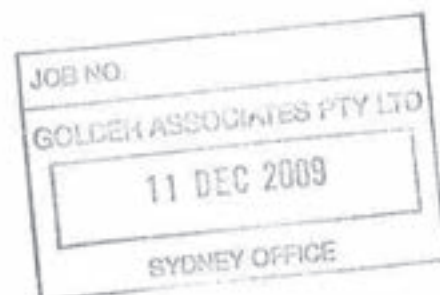
As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

*in Harvey Rd*

*12 Hours*

4		
---	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

*DOWNPOUR*

FRONTYARD



BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD



BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE



OTHER



If 'OTHER', please specify: *BACK GULLY / RUNS FROM EXCEPT FOR STORM -  
- VERTICAL PIPE*

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches) *20-30 CM TO 1M*

FRONTYARD

.....

BUILDING (ABOVE FLOOR LEVEL)

.....

BACKYARD

.....

BUILDING (BELOW FLOOR LEVEL)

.....

GARAGE

.....

OTHER (as per Q4 above)

.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE

\$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL



ROADS & PATHS



COMMERCIAL



OTHER



*YARDS BACK AND FRONT.*

PARKS



If 'OTHER', please specify: *THE PROPERTY WHERE I LIVE WAS WORKED A GRASSHOPPER -  
- OWNED.  
A ROAD RUN BETWEEN THE STREET AND THE GULLY*

*WHEN STORM WATER RUNS DOWN THIS ROAD, IT FLOODS BACK AND FRONT YARDS,*

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

*EVERY TIME WE HAVE A HEAVY RAIN STORM.*

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐ *TO*

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*HOUSE ACROSS THE ROAD NEXT TO PARK  
HAS TRAIL GARAGE FLOODED OUT EVERY TIME  
WE HAVE HEAVY RAIN STORM. MOST OF IT COMES  
OF THE ROAD AND STARTS INTO THEIR GARAGE, 2,3,4 FEET, OVER.*

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

[illegible]

**Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?**

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13. Do you think your property is liable to flooding from the nearby creek?**

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |  |                          |
|--|--------------------------|
| Detention Basin                        | <input type="checkbox"/> |
| Levees or flood walls                  | <input type="checkbox"/> |
| Creek enlargement                      | <input type="checkbox"/> |
| Bridge/Culvert enlargement             | <input type="checkbox"/> |
| Floodway construction                  | <input type="checkbox"/> |
| House Raising                          | <input type="checkbox"/> |
| Development Controls                   | <input type="checkbox"/> |
| Other (please specify) <i>DRAIN 81</i> | <input type="checkbox"/> |

ORIGIN STORM WINDS  
INTO CRACK, FROM  
OPPOSITE DIRECTIONS

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





10:193

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

JOB NO.

GOLDER ASSOCIATES PTY.

11 DEC 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

NO.

- Q8.** If possible, can you **please** provide the address of the **flood affected** property/area?

Address:

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, **do you have** any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your **property is** liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.
GOLDER ASSOCIATES PTY LTD
11 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: ..... NONE .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |  |                          |
|--|--------------------------|
| 1. State Emergency Services (SES)                | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)                   | <input type="checkbox"/> |
| 3. Local Radio/TV                                | <input type="checkbox"/> |
| 4. Gosford Council                               | <input type="checkbox"/> |
| 5. Other (please specify) .... <u>NONE</u> ..... | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☐

*There is a creek down the back of my house, but I have never experienced it flooding.*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

10:195

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

- Q1.** Could you please provide us with your contact details as we may need to verify some of the information with you (Your contact details will remain completely CONFIDENTIAL).

Name: L. SCHOLTEN

Address: 32 Taluna + 30 WOLLONGSH  
North Gosford

Day time phone number: 43655316

E-mail: Scholtenind@iprimus.com.au

- Q2.** How long have you lived / worked / shopped / run a business in the study area?

..... months  
..... 6 years

- Q3.** Have you ever experienced flooding at your property?

☐ YES

☒ NO (If NO, Please go to Q7)

If you answered YES, please give us the specific time of flooding as best as you can remember. Please also circle the largest flood in the list.

No.	Date	Time of the day
1		
2		
3		
4		





Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

N

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

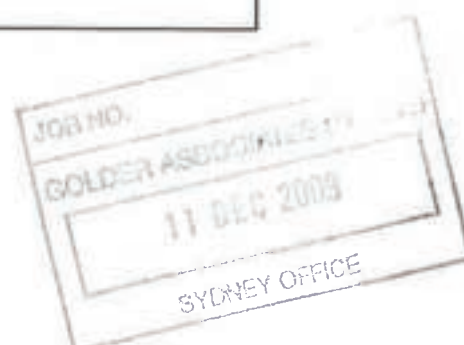


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--





Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Narrara Valley Drive (at Narrara Station)  
Deane Street, Carrington Street

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June 2007 (long weekend storms)	Friday Evening.
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☒
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

*warnings  
are of storms  
& possible local  
flooding*

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

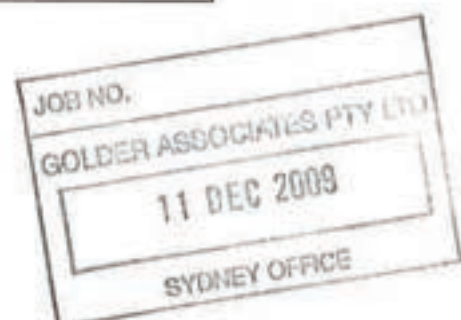


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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--





Would you be able to provide some details of the largest flood:

.....

.....

.....

.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

*NO*

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



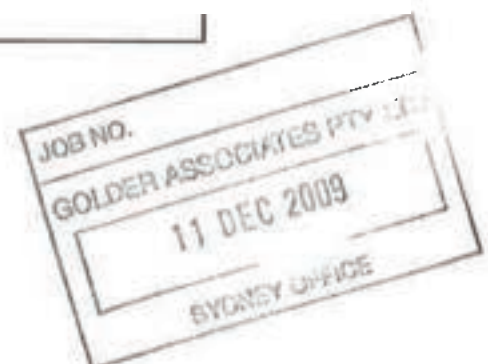
10:198

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Gavenlock oval - Some  
houses at the end of the  
Cul-de-sac

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	APRIL 07 Approx	During Night + Early morning
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: The flood moved an  
equipment container in  
Gavenlock oval. The water came  
halfway up our letter box.  
Whole Road was approx 1 metre  
under water + as far as we  
could see was all water.

This is the only time we have  
experienced anything like it.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ *UNSURE as it only happened once.*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <i>Unsure.</i>           |

.....

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



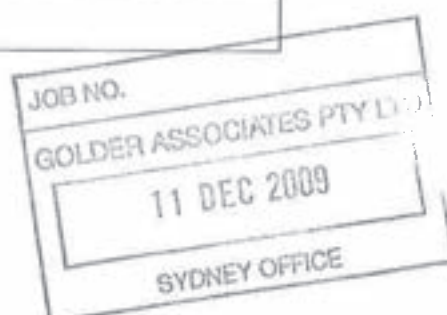
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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		





Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	2m	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)	..... WASHING AWAY OF FILL FROM REAR FILLING AREA CAUSING SLAB CRACKING AND SUBSIDENCE
DAMAGE	\$10,000

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Shawcross Rd

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE 2007	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ *near yard only*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☒
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

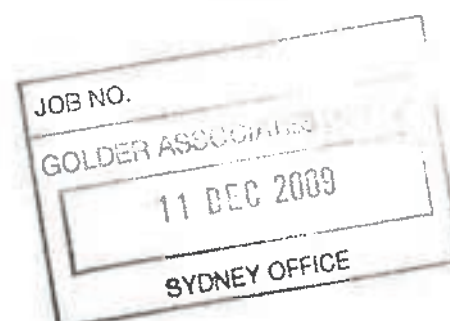


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input checked="" type="checkbox"/> |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.





Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: YURUNGA ST. TO DEAN ST  
ALONG NARARA VALLEY DRIVE

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1994	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

ONLY REMEMBERING DRIVING THROUGH  
FOOT DEEP WATER TO GET HOME.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

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.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

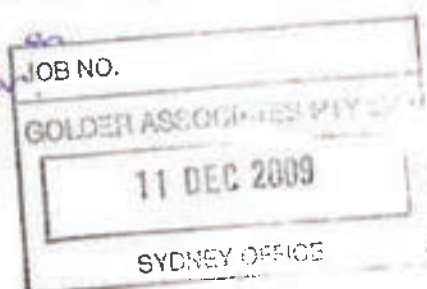


Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

We can't remember specific dates but on average we have two floods a year.





Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	1m.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) ..... N/A .....

.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: 92 - 98 REEVES STREET + CAUSEWAY & ROAD

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	As per previous comment	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



This is our  
neighbour's  
driveway



Com's fern  
are in a  
hexagonal  
treated  
pine garden  
down the  
front of  
our yard.

Flood on 28 March 2002  
at 96 Leves Street, Narara



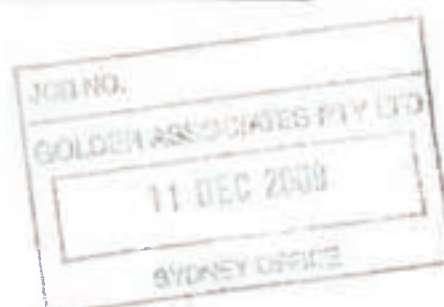


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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--



Would you be able to provide some details of the largest flood:

The largest flood was during the storms in about MAR/APR 2008. The water level in the creek at the bottom of my yard rose approx. 2m.

Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD 2m BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Fences pushed over ;  
trees & shrubs destroyed .

DAMAGE

\$3000

Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: CARRINGTON ST. floods severely at  
several points after more than about 2 days  
of heavy rain.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	PERIODICALLY	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Every resident in CARRINGTON ST.  
would have experienced this degree of flooding.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The flooding appears to be due to inadequate storm drain capacity. When the network of small creeks that intersect Callington St. flood, the water cannot drain through the existing system.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.





10:204

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

insure all data but we have had the creek break it's banks I think twice since the long weekend

JOB NO.
GOLDER ASSOCIATES PTY LTD
11 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

long weekend water 1.2 metres deep in paddock  
many tonnes of sand deposited.

Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☒

If 'OTHER', please specify: stables / shed

Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD 1.2 BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED Fence, equipment in shed, livestock  
(such as building, fence, garage etc.)

DAMAGE \$ 1000

Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Cnr Carrington and Mann's Road/  
near Narara Valley High

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

In conjunction with other flood dates

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

June long weekend Flooded twice maxed at at  
approx 1.4 metres in paddock. Will email  
photos on request.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Since the June floods, it takes less rain for the creek level to rise. It's like the creek is blocked downstream.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |

Other (please specify) .....

Guy's, I'm no expert in flood mitigation so it's a bit silly to ask this question of laymen.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





10:205

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--	--

NAME	
ADDRESS	
CITY	
POSTCODE	
TELEPHONE	

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: ..... *Flood Plain* .....

**Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: REAR 70 FOUNTAINS Rd  
NARRARA

**Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

**Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

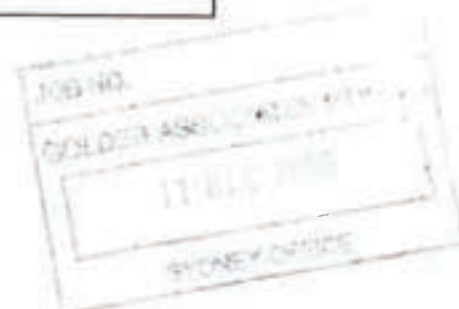


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--



Would you be able to provide some details of the largest flood:

LARGE ENOUGH TO MOVE A  
20FT CONTAINER.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	10 FT.	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

GARDENS DESTROYED  
CONTAINER DAMAGED

COST OF RETRIIVING CONTAINER OUT OF CREEK  
DAMAGE \$1000.00

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: AS ABOVE.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE FLOODS. 07.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: HAD PHOTOS OF DAMAGE  
AND FLOOD NOT SURE IF  
STILL HAVE THEM.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

NO

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

HELP AFTER FLOODING WOULD  
HAVE BEEN GOOD.

Thank you for providing the above information.



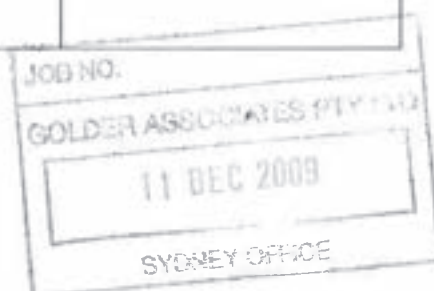


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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

THE CREEK HAS A LOT OF RUBBISH,  
SHOPPING TROLLEYS AND DEAD TREES.  
IN THE CREEK WATER CAN NOT GET  
AWAY AND JUST BUILDS UP THEN  
OVER FLOWS

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

RUBBISH IN CREEK

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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JOB NO.
GOLDER ASSOCIATES PTY LTD
11 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Narara Creek - Rowena St  
8 Allan Davidson Park

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Narara Creek approx 20 years ago	?
2	Allan Davidson Park	?
3	whenever it rains heavy cannot cross causeway, no	
4	other way across park.	

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒

NO ☐

*slightly from small creek  
leading to larger creek*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

*not enough to worry about*

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



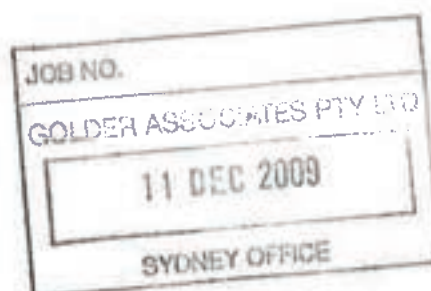


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: NARARA VALLEY DRIVE - HOMES  
NEAR BAPTIST CHURCH -  
82 SHOWGROUND RD

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.

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- -

JOB NO.

GOLDER ASSOCIATES PTY LTD

11 DEC 2009

SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

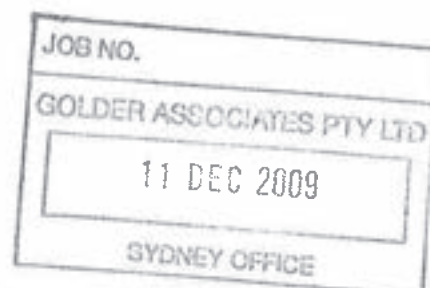


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: DANE STREET NARVA VALLEY DRIVE  
 HANLAN STREET MANN'S ROAD  
 ARLINGTON STREET SHOWGROUND RD

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No!

No.	Date	Time of the day
1		
2		
3		
4		

Many Times  
 over MY  
 Time Here

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

1989/91 SOVERAN MAJOR FLOODS WHORO NARVA  
 CROOK FLOODED INTO MANN'S RD AND CLOSED SHOWGROUND  
 ROAD SOME ALLEVATION WORK ON NARVA VALLEY DRIVE  
 IN 1990'S IMPROVED SITUATION BUT STILL FLOODED TUNO  
 A COUPLE OF YEARS AGO  
 CUT OFF DOWNE ST AND HANLAN ST TOO

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Hand  
Regulated  
eyes

JOB NO.
GOLDER ASSOCIATES PTY LTD
11 DEC 2009
SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

*Have not experienced any of the above.*

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



SORRY  
NO INFORMATION

10:213

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

- Q1.** Could you please provide us with your contact details as we may need to verify some of the information with you (Your contact details will remain completely CONFIDENTIAL).

Name: .....

Address: .....

Day time phone number: .....

E-mail: .....

- Q2.** How long have you lived / worked / shopped / run a business in the study area?

..... months

..... years

- Q3.** Have you ever experienced flooding at your property?

☐ YES

☐ NO (If NO, Please go to Q7)

If you answered YES, please give us the specific time of flooding as best as you can remember. Please also circle the largest flood in the list.

No.	Date	Time of the day
1		
2		
3		
4		

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Would you be able to provide some details of the largest flood:

.....

.....

.....

.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....





**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<i>HORSE PADDOCKS</i> <input checked="" type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	<i>1 METRE</i>

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) *NIL*  
.....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: FLOODING OCCURS ON MY  
PROPERTY REGULARLY. AFTER 2 TO 3 DAYS  
OF HEAVY RAIN. IT HAS GOTTEN WORSE  
SINCE COUNCIL RAISED THE LEVEL OF  
THE ROAD, REMOVED THE EXISTING FLOODWAY  
& INSTALLED A NEW BRIDGE  
FLOOD HEIGHT CAN BE SEEN ON FENCE.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

THE DRAINAGE PIPE UNDER RANDALL ST  
IS TOO SMALL. SINCE HIGH SCHOOL 2  
OVAL WERE BUILT ALL THE DRAINAGE  
IN FLOOD TIMES SEEMS TO RUN  
DOWN THE NORTHERN SIDE OF CARRINGTON ST.  
IT USED TO FLOW DOWN BOTH THE SOUTH  
DRAINAGE CHANNEL.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.

GOLDER ASSOCIATES PTY LTD

11 DEC 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: *I think its called  
Warilla Ave. just around  
the corner.*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>Every time there is heavy rain.</i>	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

JOB NO.
GOLDER ASSOCIATES PTY LTD
11 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

① Walkway from Niagara Park to Narara to adjoining st. ② Naravelley Dr Narara

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Major storm - 3 years ago	
2		" "
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                           |
|----------------------------|---------------------------|
| Detention Basin            | <input type="checkbox"/>  |
| Levees or flood walls      | <input type="checkbox"/>  |
| Creek enlargement          | <input type="checkbox"/>  |
| Bridge/Culvert enlargement | <input type="checkbox"/>  |
| Floodway construction      | <input type="checkbox"/>  |
| House Raising              | <input type="checkbox"/>  |
| Development Controls       | <input type="checkbox"/>  |
| Other (please specify)     | ..... <u>Unsure</u> ..... |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

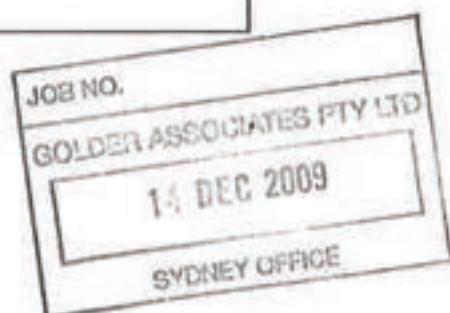
Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.



Would you be able to provide some details of the largest flood:

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.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: No never experienced it.

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: No, cannot provide any

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No, experience

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

No thank you

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

No.

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/>            |

clearing small creek areas

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

*Some*

Development <sup>for</sup> should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

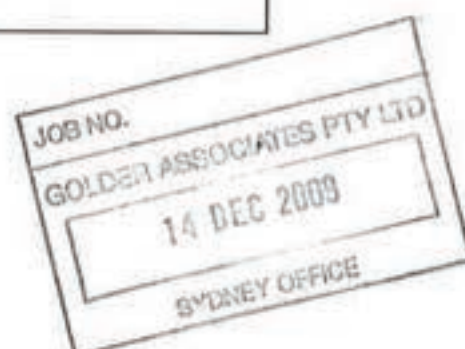


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: TO THE REAR OF OUR PROPERTY  
ON CHAMBERLIN ROAD.  
BUT NOT FOR 25 YEARS.

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below.

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.

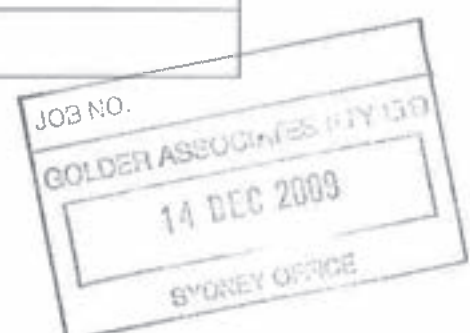


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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Pathway at end of Kondeze Rd  
Near No 49 -

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

Do Not remember

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

No evidence. All I Remember  
the public were unable to walk  
along there.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☒
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

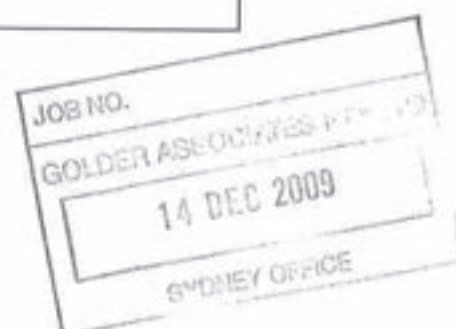


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 2141 ST. WYOMING / CHAMBERLAIN  
ROADS

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		P.M.
2		
3		
4		

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

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.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

No

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

No

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13. Do you think your property is liable to flooding from the nearby creek?**

YES ☐ NO ☐

26

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |
- No

No

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

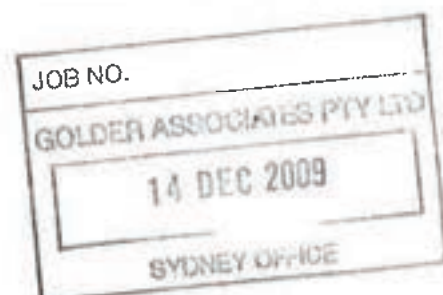


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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.....  
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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

No.

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO.*

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ *Don't know*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

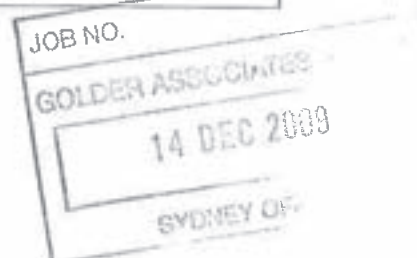


Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

	2009 (MARCH)	9.00 AM
4		



Would you be able to provide some details of the largest flood:

2006 - STORMS. FLOODED BACK OF PROPERTY  
(BORDERS THE CREEK) PLUS FLOODING FRONT  
THE ROAD DOWN THE SIDES OF THE HOUSE  
AND INTO THE POOL

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER (POOL + SURROUND) ☒

If 'OTHER', please specify: POOL + SURROUNDS

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD 2cm BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD UP TO 2 METRES BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) 5cm

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) POOL + GARDEN. HOWEVER  
DUE TO FLOODING A TREE  
FELL ON THE HOUSE  
POOL + SURROUNDS = \$2,000  
DAMAGE S. HOUSE = \$120,000

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☒  
PARKS ☒

If 'OTHER', please specify: THERE IS A CULVERT ON REEVE ST  
THAT OFTEN FLOODS. HIGHEST  
WE HAVE SEEN WAS 2 METRES

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	2002	Am
2	2004	Am
3	2005	Am
4	2006	All Day

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

WE HAVE PHOTO'S OF THE DAMAGE  
FROM THE TREE + THE FLOODING OF  
THE POOL. NOT SURE IF THEY  
ARE WHAT YOU WOULD WANT.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



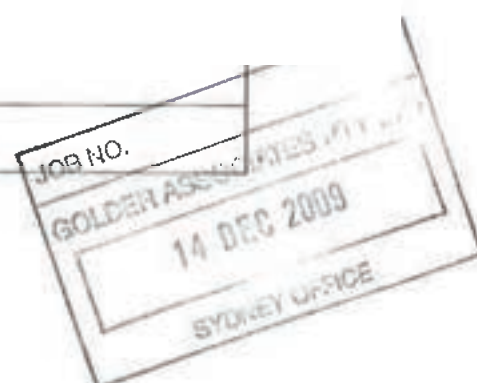
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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

Q8. If possible, can you please provide the address of the flood affected property/area?

Address: NAROOMA ROAD AT FOOT OF THE HILL ON THE BEND. WATER RESHES DOWN AND THE EXISTING STORM WATER DRAINAGE CANNOT COPE. ADDRESS - 34 NAROOMA RD.

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	SEPTEMBER 2009	UNKNOWN
2	OCTOBER 2009	UNKNOWN
3		
4		

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your **property** is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☒

Levees or flood walls

☐

Creek enlargement

☒

Bridge/Culvert enlargement

☐

Floodway construction

☒

House Raising

☐

Development Controls

☐

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.  
GOLDER ASSOCIATES  
14 DEC 2009  
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: 40 BROADWATER DRIVE  
SARATOGA NSW 2251

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June 2007 (long weekend) during big storm.	Most of the day.
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |

Not sure, really.

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....  
.....  
.....  
DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☐  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: *No flooding in street or nearby area*

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below.

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.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.  
GOLDER ASSOCIATES PTY.  
14 DEC 2009  
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... DEAN ST.  
..... ROAD BRIDGE  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin ☐

Levees or flood walls ☐

Creek enlargement ☒

Bridge/Culvert enlargement ☐

Floodway construction ☐

House Raising ☐

Development Controls ☐

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

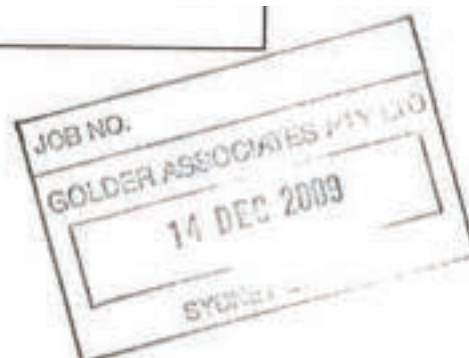
Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

*N* *0*

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address:

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☐

*DON'T KNOW*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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Would you be able to provide some details of the largest flood:

199) level went above the councils 1 in 100 year flood marker.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☒

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☒

OTHER ☐

If 'OTHER', please specify: Water overflowed from road gutter inundated garage & house -

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) 10cm....

BACKYARD 600 mm BUILDING (BELOW FLOOR LEVEL) .....

GARAGE 10cm OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Side fences retaining wall,  
Carpets.

DAMAGE \$10,000-00

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Properties down at and downstream  
of 66 Bourbon Street and Day Street  
Wyoming.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Feb 1991	Night
2	2 or 3 times during the eighties	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Photos of water that inundated  
house.



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

N/A

.....

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.....

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |   |                                     |
|---|-------------------------------------|
| Detention Basin                               | <input type="checkbox"/>            |
| Levees or flood walls                         | <input type="checkbox"/>            |
| Creek enlargement                             | <input type="checkbox"/>            |
| Bridge/Culvert enlargement / re-positioning - | <input checked="" type="checkbox"/> |
| Floodway construction                         | <input type="checkbox"/>            |
| House Raising                                 | <input type="checkbox"/>            |
| Development Controls                          | <input type="checkbox"/>            |
| Other (please specify)                        | .....                               |
- .....
- .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

*I think council needs to advise the community, what practical steps it has taken or plans to take to control/prevent future flooding.*

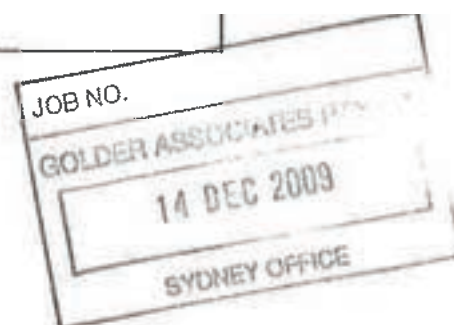
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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

no.

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... NA .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

NA.

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below.

N/A

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify)..... ☐

N/A

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

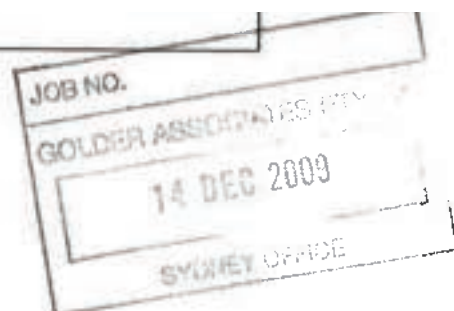
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Would you be able to provide some details of the largest flood:

Did not affect the dwelling, just  
the back yard and shed!

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input checked="" type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	...30cm...	BUILDING (BELOW FLOOR LEVEL)	...10cm...
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)

..... NO DAMAGE .....

.....

.....

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... ALAN DAVIDSON PARK .....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	2007 and several	
2		
3	Years previous.	
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

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.....

.....



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The ' easment ' at the back of our property that runs into Wyening creek is overgrown with weeds and camphor laurel etc. which causes the build-up of water.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☒  
*and " easment "*
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

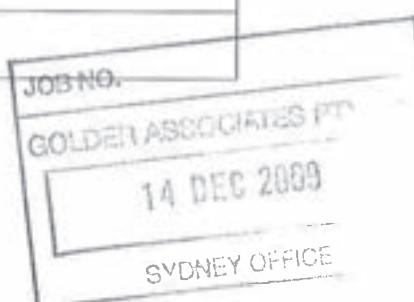


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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒ (unlikely as we have a floodway but this could overflow under extreme conditions)

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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→ Arrived whilst on work Assignment in Tasmania

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	1999 →	After heavy rain depending
	2007 →	1 day. On tide.
	2010 → high tide	

JOB NO.   
 GOLDR ASSOCIATES PTY   
 14 DEC 2009   
 SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

1973. Stranded for 3 days with new born baby - supplies boated up to me. At the time Carrington St was a 1 way. Inferned / unsealed single lane. Water did not cover my property to the extent that it does now. Since Council did extensive "flood mitigation" work in 80's problem has increased

Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☒ near creek BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD 12/18 inches BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) 4 WD written off -> repairing a vehicle that washed over creek edge outside 77 Carrington  
DAMAGE \$ 87,000

Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☒  
PARKS ☒

If 'OTHER', please specify: Natural creek - erosion followed by siltation from wash. level of creek has significantly decreased. In 1970's platypus lived in area of 77. Depth too deep to stand. Now - walk across of bank

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: My property 17 Carrington St. In 1970 whole of street, including Mann's Rd, same 2007. other times from Pandala St to other side of Bridge → 82 Carrington

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1973	After heavy
2		rain depending
3		on tide.
4	2009	Narala Ck is tidal

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: I have photos of flooding dating back many years. Having lived here since 1970 I also could point out levels etc. Most recent events were well documented by local Newspaper with photos etc on file. SES would (should) still have records of the many car retrievals in recent episodes of flooding



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Suggest dredging the creek  
area of Carrington St & review  
the size of storm water drains &  
levels of access drains put in by  
Council

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input checked="" type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) friends | <input checked="" type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

Dredging to remove  
40+ yrs of Councils  
road base

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
---	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE      \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: NEAR NARARA COMMUNITY CENTRE

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

No

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

???

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



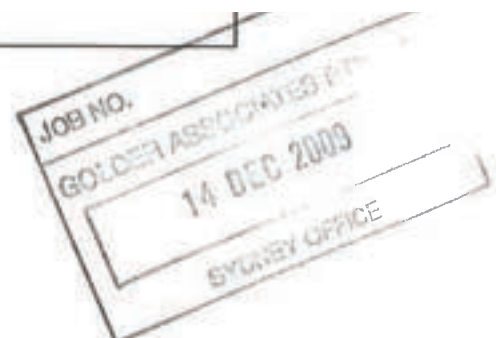
12: 224  
234

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Would you be able to provide some details of the largest flood:

occurred during June long weekend,  
property adjacent to Glenloch,  
Aval

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input checked="" type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	47cm
BACKYARD	2m+	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

fence, white goods,  
furniture, personal  
effects

DAMAGE \$15,000

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO, other than neighborhood.

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Gavenlock Oval, Showground Road.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<u>June 2007</u>	<u>all day</u>
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

photographs



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Car Showground Road & Miliwa Street is often under water

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? NO

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin



Levees or flood walls



Creek enlargement



Bridge/Culvert enlargement



Floodway construction



House Raising



Development Controls



Other (please specify)

- monitor watercraft speeds to reduce erosion of creek banks.

- construct retaining walls on creek banks

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.



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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Con Racecourse rd +  
Pacific Hwy West Geyser

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	?	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

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.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |

N/A

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



10: 236

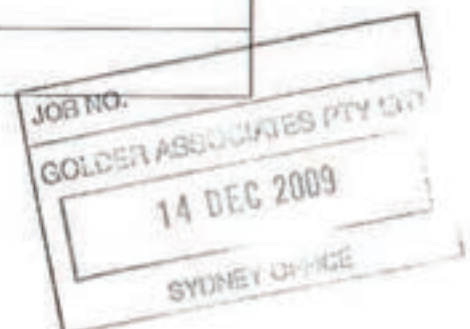
23 NOV 2009

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



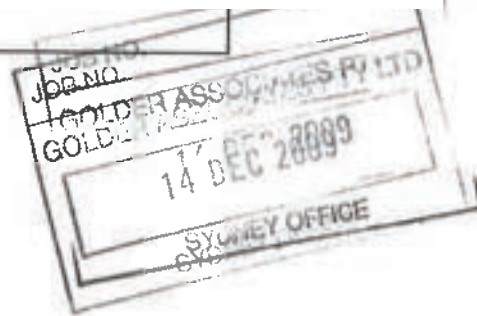
10: 222 237

- 7 DEC 2009

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

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.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



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G



Would you be able to provide some details of the largest flood:

As per neighbours comment.

I have witnessed 500MM ABOVE  
ground level Flooding. APPROX 12-year  
ago.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>

If 'OTHER', please specify: VACANT LAND

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	500MM

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

VACANT LAND  
ERODED - NEEDS TO  
BE RE-CLAIMED.

DAMAGE \$ ?

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

? LIVE IN SYDNEY.

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Birru Rd, lot 7-9  
Castford

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	12 year ago approx	
2		
3		
4		

- live in  
Sydney  
= have not  
been to this  
block  
often

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

hard needs  
~~needs~~ re-claimations

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ☐

?

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.

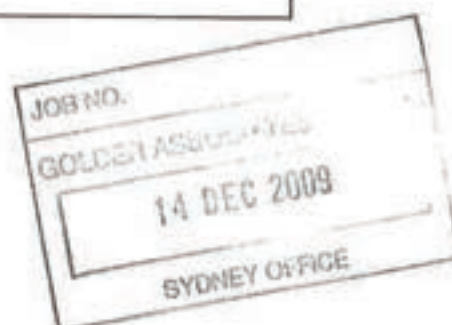


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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

*No*

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	<i>No</i> .....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

*No*

.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

*No*

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *14/1 L* .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |       |
|----------------------------|--------------------------|-------|
| Detention Basin            | <input type="checkbox"/> |       |
| Levees or flood walls      | <input type="checkbox"/> |       |
| Creek enlargement          | <input type="checkbox"/> |       |
| Bridge/Culvert enlargement | <input type="checkbox"/> |       |
| Floodway construction      | <input type="checkbox"/> | N/L   |
| House Raising              | <input type="checkbox"/> |       |
| Development Controls       | <input type="checkbox"/> |       |
| Other (please specify)     |                          | ..... |
- .....
- .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



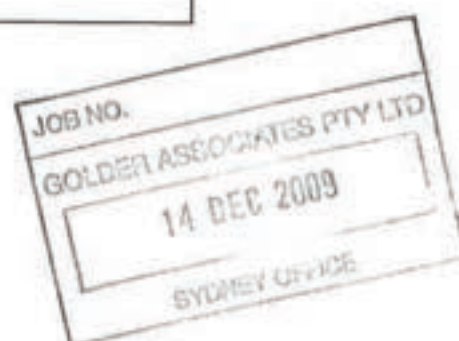
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240

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....

.....

.....

.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input checked="" type="checkbox"/>
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... BACK FENCE DISAPPEARED .....

(such as building, fence, garage etc.)

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1983 April	NIGHT TIME
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

The Best way to tell you the answer to these questions is:

We had only moved into this house a short time. We got up one morning to find the Back Fence had disappeared into the creek. I told the council and one man came out to have a look. I heard nothing more about it. That was 27 years ago. The creek is overgrown and I don't think the water can get away. There is depression in the ground where the fence was. It has appeared over the years. I think down the street a neighbour had a Back Bedroom flooded. I really am concerned about this. I do hope this helps. E Reid



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

JOB NO.

GOLDER ASSOCIATES

14 DEC 2009

SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address:

PANDALA CNR CARRINGTON RD  
CARRINGTON ST  
HANLAN ST

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

CANT REMEMBER

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

a couple of years ago the above area was severely flooded due to improper drainage. I was unable to access my house for 2 days whenever there is heavy rainfall Pandala cnr Carrington STs flood because of too small drains



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

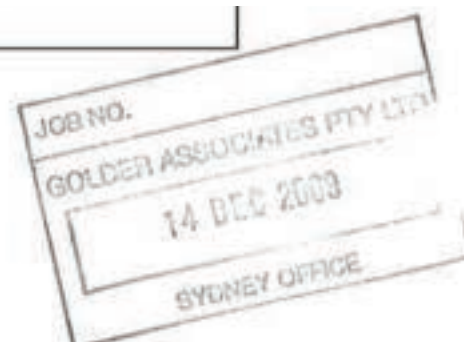
Thank you for providing the above information.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *Hanlan St Nairna* .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Potential flooding in Brays Creek  
should piped entrance become  
blocked with debris during storm  
or continuous torrential rain

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

Clean vegetation  
from creek bank



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.
GOLDER ASSOCIATES PTY LTD
14 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... CHAMBERLAIN RD  
..... ADJACENT TO WYOMING  
..... CREEK

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below.

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

Not

APPLICABLE

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

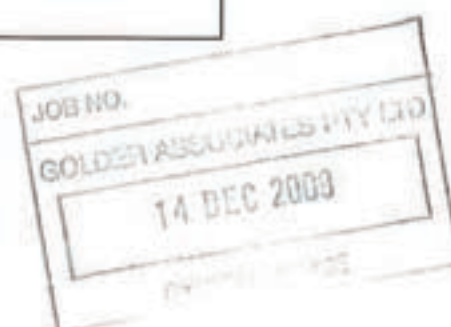


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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

2009



Would you be able to provide some details of the largest flood:

Back patio area flooded during rain.  
Drains were backed up, think

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD up to approx 10 cm ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... N/A .....  
(such as building, fence, garage etc.)

DAMAGE \$ nil

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☒

If 'OTHER', please specify: .....

Q8. If possible, can you please provide the address of the flood affected property/area?

Address: <sup>and footpath</sup> Narara Valley Drive where it crosses Narara Creek (near Narara train station). A couple of houses (opp train station) and the park next to the creek experienced flooding.

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	8 June 2007	15:51 (according to time on photo/phone)
2		
3		
4		

quite deep. →  
can see depth in  
photos against fence.

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

8 June 2007 event: came home via train (Narara station), started walking home (west side of tracks) and saw flooding. Cars trying to get through. Had to take shoes off and roll up pants to walk through deep water on footpath. Took some photos with my phone camera (see attached).

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

I have lived in Niagara Park whole life until moving here to Niagara almost three years ago. I personally think there are more flooding issues associated with Niagara Valley Drive side than Pacific Hwy side. I am concerned if upgraded highway occurs on Niagara Valley Drive side that flood mitigation works may cause more flood issues for residents.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? No

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☐

I think it is possible but would have to be a lot of rainfall to occur.

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

I don't know enough about those measures to have an informed opinion.



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future, *especially if flooding comes directly from a creek (i.e. not just a drain).*  
Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

8 June 2007 event (Narara Valley Drive and Narara Creek opposite Narara train station)



Take note of water level against fence

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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

3	
4	

JOB NO.
GOLDER ASSOCIATES PT
14 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

28 Ahora Road has not been subject to flooding but is shown as being in a flood hazard area. I think the flooding maps are incorrect. Particularly since the Council did improvements/diversion works to the river at the end of Ahora Road. I would like the Council to update their flood maps instead of relying on outdated & inaccurate maps.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

.....  
.....  
.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

*The flooding maps are inaccurate & outdated. The Council needs to ensure its existing flood maps are accurate & up to date before taking any action.*

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: NARARA CREEK  
SHOW GROUND Rd

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2 ✗		AFTERNOON
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

.....

PARKS - LEAVE AS

WET LAND

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

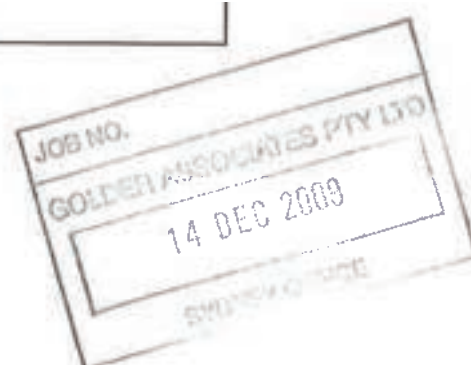


Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

*June Long weekend 2007 Didn't actually flood  
our property but flooded the access to it  
in Carrington St near the school & at the  
private end of Carrington St. Our garage always  
floods due to the runoff from the lie of the land*

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☒ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event?  
(Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE *seepage* ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages  
caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

*Garage floor - no water  
involved, just a cleanup*

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study  
area other than your property? If so can you describe what type of property was  
affected?

For example, you may have observed flooding or overland flow in your street that  
affected a neighbour's property or perhaps near where you work or shop (Please  
tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☒

If 'OTHER', please specify: .....

**Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: *Carlington St. Nauru*  
*Sch. Harker St. Nauru*  
*Showground Rd. Nauru (Cor. of Malua Rd.)*

**Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>June Long Weekend 2007</i>	
2	<i>Several other occurrences but can't</i>	
3	<i>remember the dates</i>	
4		

**Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do **you** think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

*Clearing of the creek  
so it doesn't build  
up*



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

**		
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JOB NO.
GOLDER ASSOCIATES PTY LTD
14 DEC 2009
SYDNEY OFFICE

Would you be able to provide some details of the largest flood:

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.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: No

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... N/A .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

NA

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | NA                       |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☒

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





7 DEC 2009

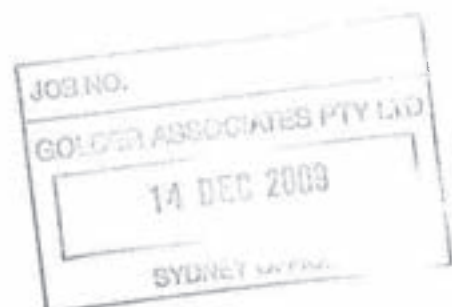
10:249

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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

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.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



10-250

23 NOV 2009

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4	
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JOB NO.

GOLDER ASSOCIATES

14 DEC 2009

SYDNEY, NSW

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE      \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.





-7 DEC 2009

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

JOB NO.			
GOLDER ASSOCIATES			
14 DEC 2009			

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.





- 7 DEC 2009

D:252

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

JOB NO.		
GOLDER ASSOCIATES		
14 DEC 2009		
SYDNEY OFFICE		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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JOB NO.  
GOLDER ASSOCIATES P LTD  
14 DEC 2009  
81

Would you be able to provide some details of the largest flood:

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.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

No

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address:

*Only witnessed flooding after massive deluge which inundated widespread area across the central Coast - storm, 1-off occasion.*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

*\*Whenever it was that the Pasha Bulka bumped into Newcastle.*

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☐

*N/A*

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*No*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☐
- 4. Gosford Council ☐
- 5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

*- we're on a pretty big hill*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

*You're very welcome.*

*need to have some sort of public info, so that people buying property can make themselves aware of the risks.*





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

HIGH TIDES CONTRIBUTE TO  
THE WORST FLOODS.  
FLOODING RECESSES QUICKLY

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☒

If 'OTHER', please specify: FRONT PADDOCKS

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) 60 cm<sup>2</sup>.

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... JUST DEBRIS  
(such as building, fence, garage etc.) ON FENCING

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

JOB NO.
GOLDER ASSOCIATES PTY LTD
14 DEC 2009

Would you be able to provide some details of the largest flood:

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.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: COUNCIL LAND - RUNS ALONG  
NARARA CREEK

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June 2007	4pm
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

No

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☒
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

10:256

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

	2002	
4	2008	

JOB NO.

GOLDER ASSOCIATES PTY LTD

14 DEC 2009

SYDNEY NSW



Would you be able to provide some details of the largest flood:

Chased Carrington St for 2 day 1m of water over the lower part of Carrington St. Cars washed away.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☒ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☒

If 'OTHER', please specify: Creek running through property

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD  $\frac{1}{2}$  m BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED None  
(such as building, fence, garage etc.)

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☒

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	As Q3.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Honours & Masters Thesis Dept of Geography  
Sydney University

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The creek running down Carrington St. is man made. it used to run across Parakee Oval (see road map). The pipe under Parakee St. are too small to take the water flow in a flood and block up easily.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☒
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

to allow better flow

Narrara Creek has a large amount of sand from a dam break when the Newcastle Freeway was constructed. This may need to be removed

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

*Council should inform people when they buy in the area.*

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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JOB NO.
GOLDER ASSOCIATES PTY LTD
15 DEC 2009
SYDNEY OFFICE



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

Nil - no flooding in  
the area as I know.

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

My father - Stanley  
passed away in July -  
will be selling house  
soon - but no floods here ever

JOB NO.	Smith
GOLDER ASSOCIATES PTY LTD	
15 DEC 2009	
SYDNEY OFFICE	



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

**Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

**Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

**Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

**Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below.

.....

.....

.....

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

JOB NO.
GOLDER ASSOCIATES PTY LTD
15 DEC 2009
REPLY OFFICE

Would you be able to provide some details of the largest flood:

.....  
.....  
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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

NO

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below.

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your **property** is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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05 JAN 2010

received by email 1/10/10

025 01

Would you be able to provide some details of the largest flood:

.....

.....

.....

.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

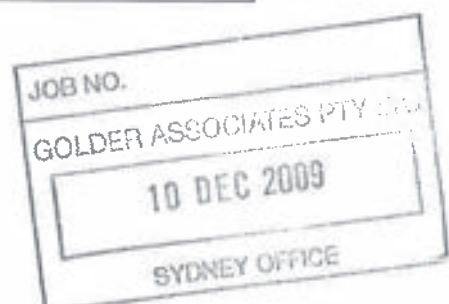
Thank you for providing the above information.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☒

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Culvert adjacent to 96  
Reeves st Nanana

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? (No)

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Please note we haven't been able to provide any information of what you ask, we don't know the area you mentioned as we were only here 3 yrs and never experienced any flooding.  
S. Martin

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: H Lisavon - new primary school.  
Nava - new high school.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

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**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? *NO*

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area? *NO*

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *No*

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

*Kirkness Ave & Cullemondah St*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>approx 1992</i>	
2	<i>N. B. Main St of Gosford was flooded</i>	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

*J. Campbell*  
07/12/09





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Navara Valley Dr Navara

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding? No

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	NO	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES)
2. Bureau of Meteorology (BOM)
3. Local Radio/TV
4. Gosford Council
5. Other (please specify) .....

☒

☒

☒

☒

☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: ..... *No flooding occurred* .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *N/A* .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

IN THE SHORT PERIOD OF TIME THAT I  
HAVE LIVED IN THIS AREA I HAVE NOT  
SEEN ANY FLOODING OR OVERFLOWING.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

NO

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☒

Levees or flood walls

☒

Creek enlargement

☐

Bridge/Culvert enlargement

☐

Floodway construction

☒

House Raising

☐

Development Controls

☐

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Would you be able to provide some details of the largest flood:

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.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Show ground Rd  
Narara

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |
|                            | .....                    |
|                            | .....                    |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.





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Would you be able to provide some details of the largest flood:

water streamed over backyard steps like a waterfall and streamed through garage which is slightly below house floor level. This happened on about 4 occasions.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input checked="" type="checkbox"/>
GARAGE	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	6"	BUILDING (BELOW FLOOR LEVEL)	6"
GARAGE	6"	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Water went through garage  
damaging fridge motor.  
Also shoes washed away from  
backyard.

DAMAGE \$1,000 cost of fridge

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Beaumont Ave.

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	1974.	
2	other dates between.	
3	1985	
4	2006.	

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

There is an easement & drain in a neighbour's property at the back which we know needs to be kept clear and clean. We think that this has not been observed in the past. Don't know the current situation. We have improved drainage on our own property.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: No .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

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.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

+  
isby)

Please proof-read your future mail outs to avoid "discrepancies"!

P.S. I hope the taxpayers are not paying for the second questionnaire because of the incorrect date. This 'discrepancy' cost a whole second re-mailing!

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

Every time it rains kilolites  
of rain water is lost, 'flooding' the road,  
it needs to be 'caught' in underground tanks  
to re-cycle.

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Calantha Drive doesn't flood  
as it is a hill but water floods down  
the hill <sup>road</sup> gutters often overflow because  
they are blocked with leaves.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	When there is	
2	(heavy) rain.	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

See Q7.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

see the creek near Chamberlain Rd, & Wyoming Creek?  
It is essential that water be trapped to re-cycle. Nanara Creek is often dirty with strewn with plastic bags & rubbish. It should be cleaned so that it flows freely & clearly which would make walking near it, much more enjoyable.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? no

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input checked="" type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

underground tanks

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? **NO**

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

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Would you be able to provide some details of the largest flood:

NO

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☒

If 'OTHER', please specify:

Bottom acre near river

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD .....

BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD .....

BUILDING (BELOW FLOOR LEVEL) .....

GARAGE .....

OTHER (as per Q4 above)

(have marked with wood) 1.5m above creek level

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Damage to  
flora

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐

ROADS & PATHS ☐

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify:

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

NO.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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4		



Would you be able to provide some details of the largest flood:

water was about about knee height  
in our back yard. Took a few  
days to subside completely

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	60cm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... N/C  
(such as building, fence, garage etc.)  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June long weekend 2007	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

an easement that runs along the northern length of our property from Manns Rd down the hill to Narara Creek does not cope with the run off from the top of the hill even in moderate rain.

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

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.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

kerb and guttering..

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *HANLAN ST. STH*  
..... *AT CAUSEWAY*  
..... *NEAR CREEK*

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>NOT ABLE TO SPECIFY DATES</i>	
2		
3	<i>SEVERAL YEARS AGO</i>	
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                                     |
|------------------------------|-------------------------------------|
| Detention Basin              | <input type="checkbox"/>            |
| Levees or flood walls        | <input type="checkbox"/>            |
| Creek enlargement            | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement   | <input type="checkbox"/>            |
| Floodway construction        | <input type="checkbox"/>            |
| House Raising                | <input type="checkbox"/>            |
| Development Controls         | <input type="checkbox"/>            |
| Other (please specify) ..... |                                     |

\*  
Narara Creek - & the bush reserve area - adjacent to our property is heavily overgrown with lantana, privet etc. The creek is now nothing more than a series of muddy pools - an actual "flow" of water occurs only in extremely heavy rain.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

44		
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Would you be able to provide some details of the largest flood:

No

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

No flooding exactly but ground saturation at back of my yard - water sitting on top of ground towards the fence line where the creek behind is.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? *NO*

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

*No one which -*  
*no experience in this*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? **NO**

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.





Would you be able to provide some details of the largest flood:

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.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Day St near Bus Shed  
about 20 years ago

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding? no

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: ..... M.O. .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input type="checkbox"/>            |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input checked="" type="checkbox"/> |

*no*

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ *No idea.*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

JUNE Public Holiday Weekends 2007  
WATER ROSE RAPIDLY UP TO 1-100 yr Flood  
LIND? 1ST TIME WATER RISES RAPIDLY AT  
Paddock Gate

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☒

If 'OTHER', please specify: Paddock

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) Paddock 3-4 METERS

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)  
CREEK BANK SERIOUSLY  
ERODDED - CHANGING COURSE

DAMAGE \$ 7

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☒  
PARKS ☐

If 'OTHER', please specify: NEIGHBOURHOOD PROPERTY

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Deane St Box 79 + 13

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE 2007	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

I ~~DO~~ BELIEVE THE BEND IN CREEK AT  
REAR OF OUR PROPERTY IS CAUSING SOME  
OF THE PROBLEM - NARROWING & CLOGGING WITH  
DEBRIS

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                                     |
|------------------------------|-------------------------------------|
| Detention Basin              | <input type="checkbox"/>            |
| Levees or flood walls        | <input type="checkbox"/>            |
| Creek enlargement            | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement   | <input checked="" type="checkbox"/> |
| Floodway construction        | <input checked="" type="checkbox"/> |
| House Raising                | <input type="checkbox"/>            |
| Development Controls         | <input type="checkbox"/>            |
| Other (please specify) ..... |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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.....  
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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: NARARA COMMUNITY CENTRE CARPARK  
PANDALA RD  
NARARA

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	2003 - date & day not recalled	approx 10am
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

DURING STORMS OF JUNE 2008 A CLOSE  
EYE WAS KEPT ON EASEMENT AT REAR OF  
MY PROPERTY AS WATER ROSE TO LAND  
LEVEL BUT NEVER ACTUALLY OVERFLOWED

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ BUT LOW PROBABILITY

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

UNSURE - AS LONG AS  
THERE IS NO INTERRUPTION  
TO WATER FLOW DURING MAJOR  
STORMS  
- REGULAR CLEANING / CLEARING OF  
RUBBISH & EXCESS VEGETATION



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: MANNS ROAD GOSFORD  
SHAW GROUND RD GOSFORD. x2

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	MANNS RD	1700
2	SHAW GROUND RD	1800.
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	50cm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) just plants & lawn  
.....  
.....

DAMAGE \$ not much

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify:

council reserve at back of our property

Q8. If possible, can you please provide the address of the flood affected property/area?

Address: • Malwa Rd & showground road intersection  
• showground road & Manns Rd intersection.

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

can't remember dates but showground Rd & Malwa has flooded several times in the last 7 1/2 yrs.

No.	Date	Time of the day
1		
2		
3		
4		

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

- Have photo's of backyard during June 2006 storms.
- Have photo's of council reserve during 2006 June storms with water rushing past our back fence.

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | <input type="checkbox"/>            |

?what this means

.....

.....

.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

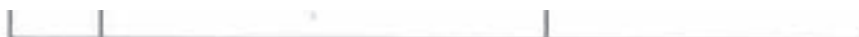
Thank you for providing the above information.



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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....  
.....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 115 Jarrett St

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Early 1980's (Once only during prolonged rain)	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

No flooding from  
Wingello Ck for more than  
30 years!

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

No.

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

Already carried  
out - proper banking plan  
established in  
Wingello Ck.



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

6/09  
27

[ ABOUT TEN YEARS AGO ]

Would you be able to provide some details of the largest flood:

Q4.

Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD



BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD



BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE



OTHER Roadway ☐

If 'OTHER', please specify:

Q5.

Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

1 foot

BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD

N/A

BUILDING (BELOW FLOOR LEVEL) .....

GARAGE

N/A

OTHER (as per Q4 above) .....

Q6.

Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

NO BUILDINGS BUT QUITE  
LARGE STRIKE OF  
TREES

CHURNED WEEDS WASHED OUT

DAMAGE

\$15,000, on today's costs

Q7.

Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify:

FLOODING IN COMMERCE  
ADJACENT BY RECTIFIED BY COUNCIL

ADJACENT BY  
COUNCIL

Q8. If possible, can you please provide the address of the flood affected property/area?

Address:

MIDDLE OF (OLD) CHAMBERLAIN AVENUE

Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	No	I DON'T HAVE MY TIME
2	KEEPING THE SPOT OF DETAIL	
3	IT SHOULD HAVE BEEN AVAILABLE	
4	FROM GOSPORT COUNCIL	

Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

I DON'T HAVE  
FILM OR SKETCH MATERIAL

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☒
- 4. Gosford Council ☐
- 5. Other (please specify) ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

*Not Now that Gosford Council has rectified*

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

*WHERE !!!*

☐

Levees or flood walls

☒

Creek enlargement

*DON'T INTERFERE WITH NATURAL*

*NO WATERWAYS*

Bridge/Culvert enlargement

*UNLESS NECESSARY*

☒

Floodway construction

*HAS BEEN CONSIDERED*

☐

House Raising

*GOSFORD COUNCIL*

☒

Development Controls

☐

Other (please specify)

*WHO WOULD PAY FOR THE ABOVE?*



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

*UNLESS THE WATER DOES TO STOPPER*

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



IT TRY THAT THE LOSS  
OF THIS MISILE DUE TO  
THE ENVIKORE POST -  
WENGE IS SOLD TO THE  
STATE & THE LOSS OF THE  
STATE

## REVIEW OF NARARA CREEK FLOOD STUDY, FLOODPLAIN RISK MANAGEMENT STUDY & PLAN

### COMMUNITY QUESTIONNAIRE

Dear Resident

You will have recently received a questionnaire requesting your input to the review of the Narara Creek Flood Study, Floodplain Risk Management Study & Plan.

Unfortunately, there was a discrepancy in regard to the required date of response between our cover letter and the questionnaire. The cover letter had a return date of 11 December 2009 and the Questionnaire had a return date of 20 November 2009.

We are therefore resending the questionnaire, and a reply-paid envelope, in case you thought that the time for response had already passed and have discarded your copy.

Your input to this review is important and we apologise for any confusion caused.

We would appreciate if you could complete the attached survey within 3 weeks from the date that you receive it.

If you have already replied then please disregard this notice.

For further information on flood risk management planning in the Narara Creek catchment please contact Mr Habib Rehman, Consultant's Project Manager on 02 9478 3900 or hrehman@golder.com.au. Alternatively, you can contact Erensa Shrestha, Council's Flooding and Drainage Engineer, on 02 4304 7087 or at Erensa.Shrestha@gosford.nsw.gov.au if you have specific queries regarding the Narara Creek Flood Study, Floodplain Risk Management Study & Plan.

GOLDER ASSOCIATES PTY LTD

BRW  
CLIENT  
CHOICE  
AWARDS  
2009  
WINNER

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*THIS IS CONFUSING - YOU HAVE THE  
DATE ANSWERED WITH THE REQUEST*

*HOLIDAY IN TASMANIA - YES PLEASE (WAS ON  
HOLIDAY IN TASMANIA)*

*THE DATE DATE I SENT IT DESTROY*

*(YOU CAN GET IT 3 TIMES NOW)*

*I HAVE A WORKING  
HOLIDAY IN TASMANIA THIS TIME I SURGEON THE  
TO THIS SHOW THEN HAD 10 DAYS CONFERENCE  
2 OF VOLUNTEER BOTANIC GARDENS GUIDES.*

*WHAT HAPPENED TO THE  
TWO PREVIOUS SAME QUESTIONNAIRES I  
FILED IN THIS YEAR. THE BOARD  
BUT I SUSPECT SOME OF YOUR STAFF CAN'T  
READ - I SUPPOSE THERE IS NO  
WAY YOU CAN ASSURE ME THAT I  
WILL NOT RECEIVE ANOTHER NEXT  
TIME IN SEND A TO THE TOWN  
P.T.O.*



IM AN OLD MAN OF 80 AND  
MY DRIVEWAY IS LONGER (IN OR  $\frac{3}{4}$  ACRES)  
AND STEEP ANY TO HAVE TO GO DOWN  
AND SET THIS REPEREY IS A  
CHORE THAT MY POOR OLD LEGS  
COULD DO WITHOUT.

WELL AM (SELECTED)  
TO HAVE TO FILL IN 3 OF THESE  
THINGS. IN A WELL RUN BISHOP DISTRICT  
WITH A GOOD FINING SYSTEM  
I SHOULDN'T NEED TO FILL  
IT IN 3 TIMES. MAYBE YOU  
DON'T HAVE SOME OF THE  
INFORMATION. I KNOW NO ANSWER  
WILL COME TO MY QUERIES AS  
PROBABLY YOUR STAFF CAN'T WRITE  
LETTERS AS WELL AS NOT  
READ

Jim Mathew

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: NOT IN THIS AREA

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... N/A .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding? N/A

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐ N/A

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

No Flooding

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by

3		
4		

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

**Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... ① Chamberlain Road, Wyoming .....  
 ..... Over their driveways .....  
 ② Carrington Road, Narara, .....  
 .....

**Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	? 2001	Afternoon
2	2005, June 2007	
3		
4		

**Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |   |
|----------------------------|---|
| Detention Basin            | <input type="checkbox"/>                                    |
| Levees or flood walls      | <input type="checkbox"/>                                    |
| Creek enlargement          | <input checked="" type="checkbox"/> Carrington Road, Narara |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> Carrington Road, Narara |
| Floodway construction      | <input type="checkbox"/>                                    |
| House Raising              | <input type="checkbox"/>                                    |
| Development Controls       | <input type="checkbox"/>                                    |
| Other (please specify)     | .....   |
|                            | .....   |
|                            | .....   |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--	--

Would you be able to provide some details of the largest flood:

9-6-2007 June long weekend, our house was flooded by 30cm of water from the creek that runs parallel to Koninderie Rd. It flooded our house, back yard, front yard, garage.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD



BUILDING (ABOVE FLOOR LEVEL)



BACKYARD



BUILDING (BELOW FLOOR LEVEL)



GARAGE



OTHER



If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

30cm

BUILDING (ABOVE FLOOR LEVEL)

30cm

BACKYARD

30cm

BUILDING (BELOW FLOOR LEVEL)

NA

GARAGE

30cm

OTHER (as per Q4 above)

NA

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

house, carpets, all laminate flooring, fence, furniture

DAMAGE

\$ 14269

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL



ROADS & PATHS



COMMERCIAL



OTHER



PARKS



If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: *Koninderie Pde, near house number 9. The road and pathways were flooded and water came half way up our driveway.*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>8.6.2007</i>	<i>4.00 pm</i>
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

.....



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The creek on many occasions has come close to breaching its banks near Honindarie Pde prior to the flood and after the flood with extended rain periods. If council was to build a wall or some flood barrier along Honindarie Pde it would greatly reduce the risk of flooding.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) *No Warning* ☒

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the **largest** flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide **details** of the damaged property and an estimate of damages caused by the **largest** flood?

PROPERTY **DAMAGED**  
(such as **building**, fence, garage etc.) .....

**DAMAGE** \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

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.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.



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10:299 (May 2004) 1 - 89m

1 With the flood in May 2004 (or 5?) the flooding was short but the highest 9' we seen on the road but there was much less water over the low-lying part of my property, with behind house & garage, flooded less, probably because more houses had gone in up behind us, & the water probably went down their drains.  
 N.O. 1293: Casington St was really flooded, about a metre deep at times & on my property, the little creek bed flowed extensively, as did a "drain" made my me on the other side of a low-lying area well back from my very dry house

Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

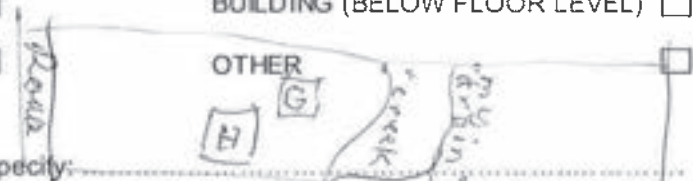
BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

If 'OTHER', please specify:



Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) .....

Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

None of any importance.  
 Just the need to clear away deposited leaves etc.

DAMAGE \$ .....

Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 86984 Carrington Street where water which had come across the area behind my garage flowed over their land & down to the street-side drain on our side of Carrington St.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Q8 stated	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

In the 22 years I've lived in Carrington St I've flooded in or out on about 10 occasions. When that happened all of our street almost along to 86 Carrington St where the land rises above the ancient flood plain. The worst I was aware of was in May 2004(?) when there was 113mm in about 45 minutes in Narara & the road was flooded up to the school shed sign.



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The overland flooding seems to have become less over the years, probably because so much of what had been open cleared land above & beyond us has been smothered in housing

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV *Don't listen to it !!!* ☐
- 4. Gosford Council ☐
- 5. Other (please specify) ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☒
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

When the council changed the draining under Pandala Street they put in circular pipes instead of a bridge/culvert and the water runs over the road quite early in any flooding.  
Tut - tut - tut !!!

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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Would you be able to provide some details of the largest flood:

PROPERTY BACKS ONTO CREEK IN BRADY'S  
GULLY AND TWICE IN THE FIRST FEW YEARS  
WE WERE HERE, WE HAD THE CREEK RISE  
TO APPROX 1/3 OF THE BACK YARD

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☒ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD <sup>APPROX COVERED</sup> 1/3 OF BACK YARD BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

NO DAMAGE AS THERE  
WAS NO BACK FENCES  
AT THE TIME

DAMAGE \$ .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: NARARA CREEK ON SHOWGROUND RD  
AT BRIDGE, AND REGULAR FLOODING AT  
INTERSECTION OF RACECOURSE RD AND CENTRAL COAST HWY

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	JUNE 2007	EARLY MORNING
2	AND AT CHRISTMAS TIMES	
3	RACECOURSE RD FLOODS MOST TIMES	
4	WE HAVE HEAVY RAIN	

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

THE WORST FLOODING IN THE NARARA CREEK AREA OCCURS WHEN YOU HAVE A COMBINATION OF KING TIDES AND HEAVY RAIN.

THE CREEK BEHIND MY PROPERTY HAS HAD FLOOD MITIGATION WORK SINCE THE EARLY 1980's.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information? *Yes*

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: It does not apply to us  
where we live.

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
..... N/A .....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2	N/A	
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

N/A

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |
- N/A

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |
- N/A

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☒

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: CARRINGTON ST. + SHOW GROUND  
ROADS

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<u>LINE LONG WEEKEND 07</u>	<u>4pm</u>
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |
- .....
- .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Day

9.12.07	Afternoon
---------	-----------

16.2.09

MINOR FLOODING  
REEVES ST CAUSEWAY

\* ALSO FIRST FLOOD AFTER REEVES STREET BUILT  
HIGHER BY COUNCIL - APPROX 2003/4  
(2nd Highest)

Would you be able to provide some details of the largest flood:

JUNE 07 FIRST TIME OUR ACCESS BRIDGE HAD GONE  
UNDER WATER (PHOTO) BRIDGE BUILT TO 1:100 COUNCIL  
SPECIFICATIONS

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) FENCES  
.....  
.....

DAMAGE \$ 200 -

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

**Q8.** If possible, can you please provide the address of the flood affected property/area?

Property/area: BROOKS AVE WYOMING  
Address: ..... SHOWGROUND RD NARARA  
HANLAN ST NARARA  
PANDALA ST NARARA  
CARRINGTON ST NARARA

**Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	SAME DATES AS OUR PROPERTY	
2		
3		
4		

**Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

#### Details of the event:

PHOTOS (HARKED) ON BACK



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

A) THE CONTINUAL FILLING (ILLEGAL) OF FLOOD PRONE LAND BY SURROUNDING RESIDENTS HAS EXACERBATED FLOODING (BOTH DEPTH & VELOCITY) OF ADJOINING PROPERTIES & THE FAILURE OF COUNCIL TO ENFORCE THE REMOVAL OF THE ILLEGAL FILL

B) WHEN THE CAUSEWAY IN REEVES ST WAS BUILT AROUND 100mm OF RAIN WAS REQUIRED TO CAUSE IT TO FLOOD

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |  |
|----------------------------|--|
| Detention Basin            | <input type="checkbox"/>   |
| Levees or flood walls      | <input type="checkbox"/>   |
| Creek enlargement          | <input checked="" type="checkbox"/>  |
| Bridge/Culvert enlargement | <input type="checkbox"/>   |
| Floodway construction      | <input type="checkbox"/>   |
| House Raising              | <input type="checkbox"/>   |
| Development Controls       | <input checked="" type="checkbox"/> + + + +                                    |
| Other (please specify)     | REGULAR CHECKING & CLEANING OF AREAS AROUND & IN FOUNTAIN CREEK & NARARA CREEK |

\* B CONT

NOW THE CAUSEWAY FLOODS WITH ONLY APPROX 50mm RAIN -

\* WHEN WE BUILT OUR HOUSE (1986) THE LAND OPPOSITE US FLOODED. NOW NO FLOODWATERS FLOWS ACROSS THESE PROPERTIES DUE TO ILLEGAL FILLING & STRUCTURES

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



9296 REEVES ST

1988

REEVES ST CAUSEWAY

FLOODING BOTH SIDES REEVES ST

APPROX 1988

REEVES ST CAUSEWAY

FLOODING BOTH SIDES REEVES ST

APPROX 1988





AFTER JUNE 07  
FLOOD

ACCESS BRIDGE  
92-102 REEVES ST

2003/4

FRONT  
98-100 REEVES ST

AFTER JUNE 07  
FLOOD

ACCESS BRIDGE  
92-102 REEVES ST

2003/4

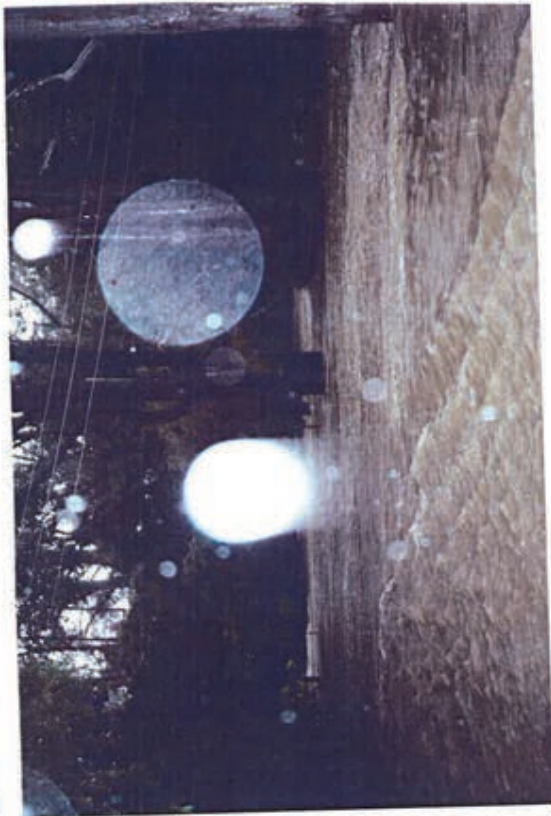
FRONT  
98-100 REEVES ST

ACCESS BRIDGE  
92-102 REEVES ST  
(00-02)

2003/4

FRONT  
94-100 REEVES ST





96, 98 100  
REEVES ST  
FRONT

9-12-07

FRONT

94-100 REEVES ST

2003/4

96, 98 100  
REEVES ST  
FRONT

9-12-07

FRONT

94-100 REEVES ST

2003/4

92-96 REEVES ST  
1988

100 REEVES ST  
DOWN TO 92

2003/4

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ① Car Pandala/Carrington, Carrington St Oval  
 ② Car park ② bridge west of Pandala Rd  
 ③ Hanlon St Causeway or corner of Fourtains Rd

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	① Pandala Rd floods very frequently	~ 1989/1990 - day & night
2	② Bridge floods also quite often after heavy rain - if bridge had been sealed, this problem would possibly not as bad.	June 2007 - 2/3 days
3	③ Hanlon St causeway doesn't flood as much as it did but did go under in June '07 (long weekend)	

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

If The drainage side corner of Pandala & Carrington were improved (ie large rectangular concrete culverts rather than woefully inadequate drains currently in place). Drains down both n/s & South sides of Carrington need clearing - water backs up when rain is heavy

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input checked="" type="checkbox"/> |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Feb, I think

Thank you for providing the above information.

NB. Carrington St has flooded & cut us off many times since we moved here in Aug. 1988. In 1989/1990 The entire length of Carrington was under water from above no. 88 down almost to Manns Rd. (However road is higher now than it was) Putting extra houses in flood prone areas also increases flooding in other areas. New developments proposed for site of Horticultural Dept. premises at end of Research Rd are a case in point. I believe Gasford Council gets blinded by the thought of all these rates \$\$ coming in & loses sight of what is important.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

.....  
.....  
.....

DAMAGE      \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15.** Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16.** Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

As I live at the top of a steep hill - well above creeks + flood plains, I am surprised that I am part of this survey. Council contour maps would show this. How many other residents living on hill tops have been asked to be part of this survey? The results from unaffected residents will probably indicate that there is no problem. Perhaps limiting the survey to people who are likely to suffer flood damage would give more relevant

P.T.O.



information.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

↖ NO

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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--	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? **No**

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information? **No**

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

**NO**

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☒

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.) .....

.....

.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Every time heavy rain occurs.	
2	cul-de-sac floods-only one rain	
3	water drain on whole street.	
4	and usually full of debris	

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Pastland between Haggerty Cose + Willari  
Are floods with heavy rains + can take  
a couple of days to be clear from flood  
water.  
Reserve

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

clear established  
noxious weed/s flood drainage of  
weeds/ flora

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: Deane St Bridge near shops.  
Hamelin St where it crosses Naram Creek.

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

*I can't remember, possibly 2004/2005*

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*No, I have no other information or comment except to say that a lot of work has been done to improve the flow of Niagara Creek.*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☐
- 4. Gosford Council ☐
- 5. Other (please specify) *No* ☒

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ *Possibly*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☒
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify)

*Cleaning out of reeds and rocks and other obstructions in the creek*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

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.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	1200MM	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

*WE MINIMISE PROPERTY DAMAGE  
BY MOVING EQUIPMENT TO HIGHER  
GROUND. COST TO US IS TIME LOST  
TO BUSINESS DUE TO FLOODS.*

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: 7 B MALINDA RD  
NARARA

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	THREE FLOODS IN THE LAST	
2	12 YEARS. EXACT TIME UNKNOWN.	
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

I CAN SHOW THE MAXIMUM  
HEIGHT OF THE WATER

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

- No development should be allowed in any area that is currently flooded or is likely to flood in future ☐
- Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒
- There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

- Send out a letter informing the flood affectation of the property ☐
- Publish flood maps on Council website ☐
- Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: ..... *No* .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *N/A* .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

.....

NO

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input checked="" type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/>            |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

N/A

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☒

Levees or flood walls

☒

Creek enlargement

☒

Bridge/Culvert enlargement

☐

Floodway construction

☒

House Raising

☒

Development Controls

☒

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

*No*

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....  
.....  
.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
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.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....  
Dredging of the mouth  
of the river  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

✓		
4		

received: 23/12/2009



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: ..... *N/A* .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... N/A .....  
.....  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	N/A	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

N/A

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) N/A     | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☒

Levees or flood walls

☒

Creek enlargement

☒

Bridge/Culvert enlargement

☐

Floodway construction

☐

House Raising

☐

Development Controls

☒

Other (please specify)

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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received: 23/12/2009



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 49 CRAWFORD CRES.  
WYOMING

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	CAN NOT REMEMBER	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

CAN NOT REMEMBER  
DATES

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ *MAY BE*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....<br>.....<br>.....             |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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reviewed: 23/12/2009



Would you be able to provide some details of the largest flood:

YES AS IT CAME UP TO CLOSE TO  
OUR FACTORY ROLLER SHUTTER DOOR

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☒ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ~ 5 FT. BUILDING (ABOVE FLOOR LEVEL) -  
BACKYARD - BUILDING (BELOW FLOOR LEVEL) -  
GARAGE - OTHER (as per Q4 above) -

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED NIL  
(such as building, fence, garage etc.)  
.....  
.....

DAMAGE \$ 0.00

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... 18 TATURA AVE .....  
..... NORTH GOSFORD .....  
..... NSW 2250 .....  
.....

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	I THINK FEB 2001	3-5AM
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

..... TATURA AVE COMPLETELY .....  
..... FLOODED IN FACT MOST OF THE ROADS .....  
..... IN THE SHOWGROUND INDUSTRIAL ESTATE .....  
..... WERE IMPASSABLE .....  
.....  
.....  
.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
..... No .....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....<br>.....<br>.....             |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

reviewed: 23/12/2009



Would you be able to provide some details of the largest flood:

Whole back yard under water  
about 1/2 metre deep

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	1/2 metre	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) Tree fall over broke two other trees and damaged clothesline.

DAMAGE \$100.00 + trees

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Narara Valley High School

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Angac Day 2007	
2	QB day Weekend 2007	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Took a video and photos

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

drainage Higher up the Hill.  
Clean the creek.

being able to raise the  
backyard a little.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.





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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

ood

4		

received: 23/12/2009



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: 104 Malua Rd  
Nanata

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*I believe continuation of embankment wall along western side of creek from about Shoground Rd towards Brisbane Waters would help solve this problem*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| Detention Basin                   | <input type="checkbox"/>            |
| Levees or flood walls             | <input checked="" type="checkbox"/> |
| Creek enlargement <i>dredging</i> | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement        | <input type="checkbox"/>            |
| Floodway construction             | <input type="checkbox"/>            |
| House Raising                     | <input type="checkbox"/>            |
| Development Controls              | <input type="checkbox"/>            |
| Other (please specify)            | .....                               |
|                                   | .....                               |
|                                   | .....                               |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.





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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

N/A

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: N/A

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	I HAVE BEEN TOLD SOMETIME IN THE 1970'S	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |   |                          |
|---|--------------------------|
| 1. State Emergency Services (SES)           | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)              | <input type="checkbox"/> |
| 3. Local Radio/TV                           | <input type="checkbox"/> |
| 4. Gosford Council                          | <input type="checkbox"/> |
| 5. Other (please specify) ..... <i>N/A.</i> | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

THE COUNCIL HAS SENT A LETTING  
SHOWING FLOOD AREA'S IN WINGELLO CRES.

Thank you for providing the above information.





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4		

received: 23/12/2009



Would you be able to provide some details of the largest flood:

WATER CAME DOWN BLANCHE AND NORTH CRESCENT  
AND SPILLED ACROSS THE ROAD ONTO OUR BLOCK

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	20 cm	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	20 cm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	20 cm	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.)  
No DAMAGE To BUILDINGS  
MUD HAD TO BE SHOVELLED  
OUT OF CARPORT AND GARAGE

DAMAGE \$ No COST CLEANED UP BY OURSELVES

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: SHOGROUNP ROXO.  
GOSFORD CITY CENTRE

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	CANNOR RECALL.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     |                                     |

..... KERR & GUTTERS .....  
..... CLEAN WATERWAYS .....  
.....



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

*The open drains in Blanche St are overgrown and are in urgent need of cleaning and upgrading. The estate is also in urgent need of kerb & guttering to avoid run off from streets into properties.*



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--	--



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ROWENA RD

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	APRIL 1989	—
2	1992?	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

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--	--	--

EASEMENT AT REAR OF YARD FLOODS  
WHENEVER WE HAVE HEAVY RAIN OVER A  
COUPLE OF DAYS.

received: 23/12/2009

Would you be able to provide some details of the largest flood:

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	<u>1.5 M</u>	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... NIL .....

(such as building, fence, garage etc.) .....

DAMAGE \$... NIL .....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: THE CULVERT ACROSS REEVES ST

BECOMES FLOODED AND NEITHER CARS OR PEOPLE CAN CROSS OVER IT. RESULTING IN SCHOOL CHILDREN BEING ISOLATED FROM HOME AND FAMILY FOR SEVERAL HOURS AND SOMETIMES LONGER -



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: WORST AFFECTED AREA IS THE  
CULVERT ON REEVES ST - WATER CAN  
BE OVER 50M WIDE (VERY DANGEROUS)

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

WHENEVER WE HAVE HEAVY RAIN OVER A COUPLE OF  
DAYS

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

CONTACT ANY PERSON LIVING  
WITHIN 400M EITHER SIDE OF THIS  
CULVERT AND THEY WILL GIVE YOU  
THEIR ACCOUNT OF THIS FLOODING,

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

IF NOTHING IS DONE BY COUNCIL TO PROVIDE ACCESS (ALTERNATE OR RECTIFY THE PROBLEM) THEN SOMEONE WILL END UP BEING DROWNED BY TRYING TO CROSS OVER WHEN IT IS FLOODED.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ HIGH TIDES MAY INCREASE THE CHANCE OF WATER BUILDING UP QUICKER.

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☒
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐

Other (please specify) A BRIDGE OVER THE CULVERT - BUT THE ROAD WILL HAVE TO BE RAISED BOTH SIDES OF THE BRIDGE WITH GREATER ACCESS FOR FLOODWATER TO PASS UNDER.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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received: 23/12/2009



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: Pacific H'way 1992



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: PACIFIC HWY NEAR  
HENNA STREET KENT ST  
NARARA, 1990.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	FLOOD WATER OVER APANIE ST - NEAR	-
2	HENNA ST NARARA.	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



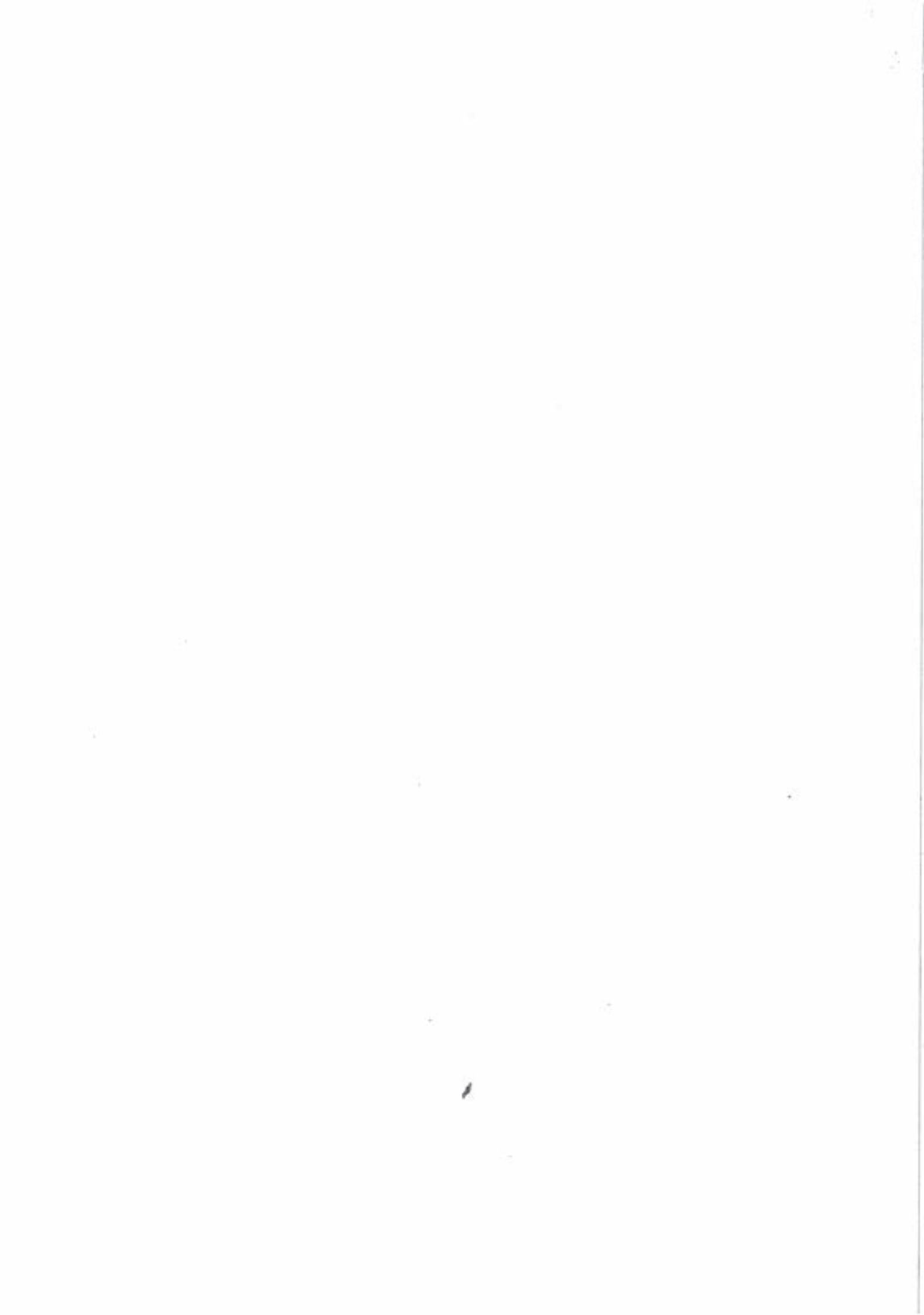
Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

\_\_\_\_\_

reviewed: 23/12/09



Would you be able to provide some details of the largest flood:

Long weekend June 2007  
.....  
.....  
.....

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	<u>8 m</u>	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) no actual damage to property  
.....  
.....

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Kathleen Morreau Rd.  
Bridge over Creek.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Long weekend June 2007	afternoon
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐ *House no*  
*Backyard yes.*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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ance

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? **No.**

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

**No.**

If 'OTHER', please specify: .....





**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
..... *No.* .....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☐
- 4. Gosford Council ☐
- 5. Other (please specify) ..... ☐

*No.*

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

*Possibly in a massive flood.*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

.....  
*Not sure*  
.....  
*what would*  
.....  
*help.*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

| | | | |

received: 23/2/2009



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

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.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                                     |
|------------------------------|-------------------------------------|
| Detention Basin              | <input type="checkbox"/>            |
| Levees or flood walls        | <input type="checkbox"/>            |
| Creek enlargement            | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement   | <input checked="" type="checkbox"/> |
| Floodway construction        | <input checked="" type="checkbox"/> |
| House Raising                | <input type="checkbox"/>            |
| Development Controls         | <input checked="" type="checkbox"/> |
| Other (please specify) ..... |                                     |
| .....                        |                                     |
| .....                        |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

*reviewed  
questionnaire  
on Mon  
23rd Nov*

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

4		
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*received: 23/12/09*



Would you be able to provide some details of the largest flood:

June 07 couldn't get home due to flooding

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: Causeway in Reeves St Narara

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) 80 cm

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED ..... N/A .....  
(such as building, fence, garage etc.)

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☒  
PARKS ☒

Carrington St Oval  
Showground Ovals  
If 'OTHER', please specify: School Narara Valley High  
access cut off



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: *Fountains Rd Narara*  
*Carrington St Narara*  
*Showground Rd Narara*  
*Reeves St Narara*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>Same as Q4</i>	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event: *Photo of causeway*

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*Culvert that crosses Reeves St block road and traps residents. It would be a simple matter of putting a bridge rather than a culvert in place.*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |  |                                     |
|--|-------------------------------------|
| 1. State Emergency Services (SES)                      | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)                         | <input checked="" type="checkbox"/> |
| 3. Local Radio/TV                                      | <input checked="" type="checkbox"/> |
| 4. Gosford Council                                     | <input type="checkbox"/>            |
| 5. Other (please specify) .... <i>neighbours</i> ..... | <input checked="" type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |
|                            | .....                               |
|                            | .....                               |

*floods are often made worse by tides*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ~~which is~~

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

moon.

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reviewed: 23/12/2009



Would you be able to provide some details of the largest flood:

Bradys Gully rose + broke over the bank, spreading about 1m into the reserve area directly beside our backyard.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☒

If 'OTHER', please specify: Reserve area adjoining our backyard

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) 5cm

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) No damage.  
.....  
.....

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☐

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Wyong Creek, Tuggerah Straight.  
- Old Maitland Road, Mardie

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June long w/end 2007	Friday evening until Saturday
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

.....

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Brady's Gully tends to swell + overflow quite a bit into the council reserve behind our house during periods of heavy rain.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

- 1. State Emergency Services (SES) ☐
- 2. Bureau of Meteorology (BOM) ☐
- 3. Local Radio/TV ☒
- 4. Gosford Council ☐
- 5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒ Our backyard is terraced down to Brady's Gully.

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☒ ?
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) .....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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received: 24/12/2009



Would you be able to provide some details of the largest flood:

*Council cut grass in reserve in the rain which washed cuttings into drains blocking them, creek over flowed with stormwater and flooded my property & home. Fences were also demolished by the weight of water.*

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD

☒

BUILDING (ABOVE FLOOR LEVEL)

☒

BACKYARD

☒

BUILDING (BELOW FLOOR LEVEL)

☐

GARAGE

☐

OTHER

☒

If 'OTHER', please specify: *Fences gates and shed.*

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD

*45cm*

BUILDING (ABOVE FLOOR LEVEL)

*40cm*

BACKYARD

*30cm*

BUILDING (BELOW FLOOR LEVEL)

GARAGE

OTHER (as per Q4 above)

*30cm*

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED

(such as building, fence, garage etc.)

*Carpets, electrical equipment, tools,  
Furniture, mowers & sniffer  
Fences & gates*

DAMAGE

*\$ 15,000*

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL

☒

ROADS & PATHS

☒

COMMERCIAL

☐

OTHER

☐

PARKS

☒

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Roads & pathways

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

*Nearly every time of heavy rain*

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

*Photographs have been lost  
over extended period of time.*

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

*Council have repeatedly promised to fix the drains and culvert but have never done a thing in the last 22 years. They also deny responsibility for any damage and have never offered me any compensation for damage*

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐

2. Bureau of Meteorology (BOM) ☐

3. Local Radio/TV

*NO WARNINGS*

4. Gosford Council ☐

5. Other (please specify) ☐

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin ☐

Levees or flood walls ☐

Creek enlargement ☒

Bridge/Culvert enlargement ☒

Floodway construction ☐

House Raising ☐

Development Controls ☐

Other (please specify)

*Council should purchase my property*

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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Rec'd: 24/12/2009



Would you be able to provide some details of the largest flood:

Floor level of House approx 2m<sup>3</sup>

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input checked="" type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input checked="" type="checkbox"/>
GARAGE	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: Just below floor level.

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	<input checked="" type="checkbox"/> 2m <sup>3</sup>	BUILDING (ABOVE FLOOR LEVEL)	<input checked="" type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input checked="" type="checkbox"/> 6'
GARAGE	<input checked="" type="checkbox"/>	OTHER (as per Q4 above)	

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) Replaced fencing on three occasions.

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 14 MURSEY ST. MARARA.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input checked="" type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

CREEK NEEDS  
TO BE KEPT CLEAR.  
MANY TREES.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☐

Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

ST

4		

received 8/01/2010



Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

No.

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....                               |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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reviewed! 5/01/2010



Would you be able to provide some details of the largest flood:

OUR STREET WAS INACCESSIBLE,  
AS WAS RAILWAY CRESCENT.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☐

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☒

If 'OTHER', please specify: STREET

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐

ROADS & PATHS ☒

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: PERRATT CLOSE, RAILWAY CRESCENT  
NIAGARA PARK | LISARON

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

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.....

.....

.....

**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ POSSIBLY IN EXTREME CONDITIONS

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |
|                            | .....                    |
|                            | .....                    |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

O.

st  
x.

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Would you be able to provide some details of the largest flood:

The bottom half of our back yard was under water, for 2 days. Moderate erosion for the over flow drain from the dam next door. Side fence was damaged from dam overflow. Gum tree next door fell over & thru our garden. Shed due to the softened ground.

Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☐

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

If 'OTHER', please specify: .....

Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD 1.5m. BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) .....

Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

Garden shed \$5,000.  
Garden fence \$2,000.

DAMAGE

\$7,000.

Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☐

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 15a Bradys Gully, Rd.  
19 Bradys Gully Rd.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	June long	
2	weekend 2007.	
3	+ Two following	
4	weekends.	

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The dam at 19 Brady's  
Gully Rd formally ~~of~~  
overflowed each time we  
received a decent down pour.  
Since the June 2007 floods  
work has been carried out on  
the area, but we also haven't  
received any decent rain.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☒
4. Gosford Council ☐
5. Other (please specify) ..... ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input checked="" type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     |                                     |

Keep the creeks  
clear of debris, etc.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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WHEN EVER YOU GET ~~EVERY~~  
A LOT OF RAIN

Received: 05/01/2010



Would you be able to provide some details of the largest flood:

YES

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>

If 'OTHER', please specify: PADDOCKS

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	3 ft

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) LOST FENCES

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input checked="" type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: EVERY TIME WE GET GOOD RAIN ALL ADJOINING PROPERTIES FLOOD THEIR FENCES ARE APPROX 4ft High AND THEY GO UNDER.

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: DEANE ST AND MOUNTAINS RD  
NARARA.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	DON'T RECORD DATES.	
2	EVERY TIME WE GET A LOT	
3	OF RAIN	
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

WE HAVE VIDEOED. BUT  
ALL FENCES GO UNDER WATER  
ROADS GO UNDER CHILDREN HAVE  
TROUBLE GET TO NARARA HIGH OVE  
TO @ ROADS CLOSED BRIDGES GO  
UNDER



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

IF THE HEAVY FLOODING COMBINES  
WITH A TIDE (HIGH) THE WATER LEVEL  
RISES EVEN FURTHER

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                          |
|------------------------------|--------------------------|
| Detention Basin              | <input type="checkbox"/> |
| Levees or flood walls        | <input type="checkbox"/> |
| Creek enlargement            | <input type="checkbox"/> |
| Bridge/Culvert enlargement   | <input type="checkbox"/> |
| Floodway construction        | <input type="checkbox"/> |
| House Raising                | <input type="checkbox"/> |
| Development Controls         | <input type="checkbox"/> |
| Other (please specify) ..... |                          |
| .....                        |                          |
| .....                        |                          |

NONE OF THE ABOVE WILL HELP WITH  
THE AMOUNT OF WATER THAT FLOWS THROUGH  
LIKE A GREAT RAPID.

Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?

No development should be allowed in any area that is currently flooded or is likely to flood in future



Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls



There should not be any control on development in the flood prone areas



Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)

Send out a letter informing the flood affectation of the property



Publish flood maps on Council website



Undertake a continuing flood awareness and community education program



Thank you for providing the above information.

ANY MORE DEVELOPMENT IN THIS  
AREA WOULD CAUSE MAJOR FLOODING  
DUE TO THE LARGE AMOUNT OF INCREASED  
WATER CATCHMENT FROM ROOFS & ROADS  
DIRECTED INTO CREEKS. THE WATER  
ALSO COMES OFF THE F3 DOWN  
INTO THE CREEKS



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

189

4		
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received: 05/01/2010

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	3-4' ft	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input checked="" type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: MANNS RD & SHOWGROUND RD  
GAVEROCK VAL

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | <input type="checkbox"/> |

*CREEK CLEANING*

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

*PARKS & SPORTING GROUNDS*

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

N/A

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

N/A

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

N/A

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... Road was flooded due to  
 ..... blocked drainage on the street  
 .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding? Do Not remember

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

At times the water smells really bad especially when we have had rain for a long period of time. We have had no problem with flooding caused by the creek.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐

NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

Detention Basin

☐

Levees or flood walls

☒

Creek enlargement

☒

Bridge/Culvert enlargement

☐

Floodway construction

☐

House Raising

☐

Development Controls

☒

Other (please specify)

.....  
.....  
.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



10. ~~333~~  
333

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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

y  
se



Received Date:  
14/01/2010

Would you be able to provide some details of the largest flood:

90's - Houses on both sides of Rowena Rd - Council took away park side Houses yet would not take (Buy) 25 or 13. Blocks 15 17 19 Council Raised with Soil from opposite Land.

Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD



BUILDING (ABOVE FLOOR LEVEL)



BACKYARD



BUILDING (BELOW FLOOR LEVEL)



GARAGE



OTHER



If 'OTHER', please specify:

Cars, Boat in trees

Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

2007  
Approx.

FRONTYARD 900mm BUILDING (ABOVE FLOOR LEVEL)

BACKYARD 820mm BUILDING (BELOW FLOOR LEVEL) 800mm

GARAGE 750mm OTHER (as per Q4 above)

from ground to step

Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

2007 NRMA would not  
Pay Damage to house  
Cracked Walls + Support under  
house

DAMAGE \$

Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL



ROADS & PATHS



COMMERCIAL



OTHER



PARKS



Gavenlock oval

If 'OTHER', please specify:

Car park



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 25 Rowena Rd. Navara  
Gavenlock Oval Navara

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<sup>2 Floods</sup> June 2007	1st 2nd 4pm + 6am next day
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

Mr Debra Hartshorne 43231310  
25 Rowena Rd. Navara 2007 Flood



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The flood waters came down Rowena Rd into my house and garage and Backyard.  
\*The Alarm near the Park did not go off During the night and early Morning Floods.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

- NO
1. State Emergency Services (SES)
  2. Bureau of Meteorology (BOM)
  3. Local Radio/TV
  4. Gosford Council
  5. Other (please specify) .....

\*There is a Flood Alarm near park  
☐ But all the kids set it off all the time by using a stick to the button  
☐ Therefore the Alarm means Nothing \*

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input type="checkbox"/>            |

Other (please specify)

"Raise the land"  
\*I have asked to knock down my house and rebuild, the council gave me a verbal NO. APPROX in 2002/03.  
\*With the Councils help, like they paid for 15, 17 + 19 to help them. I would like the same help.

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

**Central  
Coast**



**HOLDEN**

**TUGGERAH**

Phone: (02) 4351 2588

Fax: (02) 4352 1759

**GOSFORD**

Phone: (02) 4325 0511

Fax: (02) 4324 1043

**With Compliments**

*Dear Golden Associates,*

*This response to the flood questionnaire is extremely overdue. The area I have indicated is not of great concern as it may not be within your area of study. Nevertheless,*

*I thought you may wish to know.*  
*Regards, Simon Barnette*

*www.centralcoastholden.com.au*  
CENTRAL COAST AUTOMOTIVE PTY LTD  
All correspondence to Locked Bag 14 Gosford NSW 2250

ACN: 104 112 575 ABN: 98 749 244 720

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope by **20 November 2009**.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

Q1. Could you please provide us with the contact details of the person who is responsible for the management of the floodplain?

TIVE  
7 LTD.

4		
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Received Atte:

12/01/2010



Would you be able to provide some details of the largest flood:

.....  
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.....  
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- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	3 INCHES	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) ..... NO DAMAGE .....  
.....  
.....

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ... BOTTOM OF RACECOURSE ROAD,  
GOSFORD, NEAR ADCOCK PARK.  
A BEAUTIFUL CREEK THAT HAS A LOT OF  
WILDLIFE, ETC DUCKS, GEESE, BIRDS.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

WHEN IT RAINS HEAVILY

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ POSSIBLY, IF HEAVY RAIN OCCURS OVER AN EXTENSIVE PERIOD OF A WEEK OR MORE

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input type="checkbox"/>            |
| Other (please specify)     | .....<br>.....<br>.....             |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

\_\_\_\_\_

Received: Date:  
13 January 2010

Would you be able to provide some details of the largest flood:

I MADE SOME ENQUIRIES THROUGHOUT THE AREA AT THE TIME AND THEY STATED THAT NEAR THE SPORTS GROUND THE WATER WAS UP TO THE TOP OF THE CYCLE WAY UNDER PASS.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☒

If 'OTHER', please specify: ONTO RAILWAY PROPERTY. (NOT OVER THE TRACKS)

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) ??? NO SURF.

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) N/A.

DAMAGE \$ N/A.

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☒

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Shenaghar RD. & AKOR RD.

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	Same AS Previous.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     |                          |

.....

..... N/A .....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

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Received date:

13 January 2010

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected? No

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

N/A

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |                                     |
|------------------------------|-------------------------------------|
| Detention Basin              | <input type="checkbox"/>            |
| Levees or flood walls        | <input checked="" type="checkbox"/> |
| Creek enlargement            | <input type="checkbox"/>            |
| Bridge/Culvert enlargement   | <input type="checkbox"/>            |
| Floodway construction        | <input checked="" type="checkbox"/> |
| House Raising                | <input type="checkbox"/>            |
| Development Controls         | <input checked="" type="checkbox"/> |
| Other (please specify) ..... |                                     |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

\_\_\_\_\_

Received date:  
14/01/2010

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

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.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

Received Date

18 JAN 2010

Would you be able to provide some details of the largest flood:

BEFORE MY TIME HERE

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☒ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD 1.9 INCHES BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) .....  
GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED NONE  
(such as building, fence, garage etc.)  
.....  
.....

DAMAGE \$ 0-

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒ ROADS & PATHS ☒  
COMMERCIAL ☐ OTHER ☐  
PARKS ☒

If 'OTHER', please specify: side houses

0105 445 81



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 25 ROWENA RD  
NARRARA 2250  
LAND WAS NOT RAISED BY COUNCIL

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

.....

.....

.....

.....

.....

.....

.....



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The intersection of Showground Road and Maliwa Road in our area seems to flood first even in just heavy rain. Work in this area I believe would help, plus cleaning and dredging the creek is needed. "Lantana" is a weed and is taking over the creek in our area. and large trees that people have cut down & blocking creek flow

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ☐ WARNING SIGN ON CREEK IN PARK

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input checked="" type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input checked="" type="checkbox"/> |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |
|                            | .....                               |
|                            | .....                               |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.

Sorry for late reply - just returned from overseas.

10: 339

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

Received date
20/01/2010

Would you be able to provide some details of the largest flood:

A 3 feet wall of water went across the lowest part of the backyard - on top of stormwater drain. It managed to partially escape down cement covered access drain at the right hand corner of my property - but flattened everything in its path.

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	3ft	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) damaged fence  
Lost plants

DAMAGE \$ 2000

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input checked="" type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....



- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: 27 Neenoma Avenue, Narara NSW 2250

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	as before.	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

- Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The area was once an orchard with a creek that ran along the bottom (fence lines) of the whole street (odd numbers only). This accumulation water came from my neighbour's homes to the left of mine & flowed thru our backyards down the street.

- Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) ..... ☐

NO.

- Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ *NOT THE NEARBY CREEK BUT AS STATED IN Q.11.*

- Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☐
- Floodway construction ☐
- House Raising ☐
- Development Controls ☐
- Other (please specify) ☒

NO IDEA - MAYBE LARGER STORMWATER DRAIN IN BACKYARD OR ONE IN EVERYONE'S BACKYARD ACCESSING LARGE PIPES UNDER GROUND.



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☒

Undertake a continuing flood awareness and community education program

☒

Thank you for providing the above information.



Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

in

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Received date:
28/01/2010

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED .....  
(such as building, fence, garage etc.) .....  
.....

DAMAGE \$.....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: .....

.....

.....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....

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.....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
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.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

*NEVER*

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                              |   |
|------------------------------|---|
| Detention Basin              | <input type="checkbox"/>                      |
| Levees or flood walls        | <input checked="" type="checkbox"/> <i>Do</i> |
| Creek enlargement            | <input type="checkbox"/>                      |
| Bridge/Culvert enlargement   | <input type="checkbox"/>                      |
| Floodway construction        | <input type="checkbox"/>                      |
| House Raising                | <input type="checkbox"/>                      |
| Development Controls         | <input type="checkbox"/>                      |
| Other (please specify) ..... |   |

*NIL*



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☒ *NO*

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☐

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☐

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

## REVIEW OF NARARA CREEK FLOOD STUDY, FLOODPLAIN RISK MANAGEMENT STUDY & PLAN

### COMMUNITY QUESTIONNAIRE

Dear Resident

You will have recently received a questionnaire requesting your input to the review of the Narara Creek Flood Study, Floodplain Risk Management Study & Plan.

Unfortunately, there was a discrepancy in regard to the required date of response between our cover letter and the questionnaire. The cover letter had a return date of 11 December 2009 and the Questionnaire had a return date of 20 November 2009.

We are therefore resending the questionnaire, and a reply-paid envelope, in case you thought that the time for response had already passed and have discarded your copy.

Your input to this review is important and we apologise for any confusion caused.

We would appreciate if you could complete the attached survey within **3 weeks** from the date that you receive it.

If you have already replied then please disregard this notice.

For further information on flood risk management planning in the Narara Creek catchment please contact Mr Habib Rehman, Consultant's Project Manager on 02 9478 3900 or [hrehman@golder.com.au](mailto:hrehman@golder.com.au). Alternatively, you can contact Erensa Shrestha, Council's Flooding and Drainage Engineer, on 02 4304 7087 or at [Erensa.Shrestha@gosford.nsw.gov.au](mailto:Erensa.Shrestha@gosford.nsw.gov.au) if you have specific queries regarding the Narara Creek Flood Study, Floodplain Risk Management Study & Plan.

*Has not been flooded for the last 35 years*  
*Ken Hibbert.*

**GOLDER ASSOCIATES PTY LTD**

*Dear Sir,*

*Ken Hibbert own land near the  
creek area  
has never been subject to flood damage*



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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

ng -  
at  
night and 4, 5, 6 am..)

Received Date:
28/01/2010



Would you be able to provide some details of the largest flood:

Water coming up through floor boards in dining room. whole of the backyard under water. watching tools, debris, bird avery, wheel barrows etc from ours and neighbouring properties floating down the creek

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐

BUILDING (ABOVE FLOOR LEVEL) ☒

BACKYARD ☒

BUILDING (BELOW FLOOR LEVEL) ☐

GARAGE ☐

OTHER ☐

If 'OTHER', please specify: .....

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....

BACKYARD 1.5/2 metres ..... BUILDING (BELOW FLOOR LEVEL) .....

GARAGE ..... OTHER (as per Q4 above) .....

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) Carpet, furniture

DAMAGE (\$ 700 - \$800) estimate

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☒

ROADS & PATHS ☐

COMMERCIAL ☐

OTHER ☐

PARKS ☐

If 'OTHER', please specify: .....

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: Adnamira close wyoming. Also the Reptile Park where it was located here

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	as before	
2		
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

newspaper clippings, tree fallen etc

SES delivering empty sand bags as they were so busy!

Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

The council put in 2 extra drain pipes which proceeded to rectify the problem, as water flowed a lot easier and tended not to back up on itself.

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input checked="" type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☐ NO ☒

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                          |
|----------------------------|--------------------------|
| Detention Basin            | <input type="checkbox"/> |
| Levees or flood walls      | <input type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/> |
| Bridge/Culvert enlargement | <input type="checkbox"/> |
| Floodway construction      | <input type="checkbox"/> |
| House Raising              | <input type="checkbox"/> |
| Development Controls       | <input type="checkbox"/> |
| Other (please specify)     | .....                    |



**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

The area inside the yellow lines indicates the area designated by council as flood prone in its aerial survey in 1998.

Tab 3

This is survey undertaken by Bissett & Wright in 1998 that shows the position of the flood line through our property.

The orange arrows indicate the flow of the water over our property at times of heavy rain. The arrows show the water exiting into the creek pretty much almost at the boundary.

The green arrows show the flow of the water over our property at times of extreme rainfall. The arrows show the flow of the water adjacent to the creek and then exiting into the creek immediately behind the work shed. At this point the height of the ground level to the creek bed is about 8 metres.

In the 17 years that we have lived on the property the flow as indicated with the green arrows occurred about 5 times. The water in the creek even in times of extreme rainfall has never risen above the creek's embankment.

At times of extreme rainfall the water level at it's highest was about a metre below the embankment and the work shed has never flooded.

Tab 4

This is survey undertaken by Bissett & Wright for the proposed subdivision of lot a neighbouring property.

Tab 5

These are maps that indicate areas that regularly flood at times of heavy rain

I hope that you will find this information helpful in your flood study of the area.

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As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

NRARA

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Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

- Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: SEE SURVEY DEPTH APPROX 10 CM

- Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	.....	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

- Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED NO DAMAGE  
(such as building, fence, garage etc.)  
.....  
.....

DAMAGE \$ .....

- Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: SEE ATTACHED MAPS

- Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: ..... *SEE MAPS* .....

- Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	<i>FREQUENTLY AT TIMES OF HEAVY RAIN</i>	
2		
3		
4		

- Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

..... *SEE ATTACHED SURVEY & LETTER* .....



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below.

.....

.....

.....

.....

.....

.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                          |
|-----------------------------------|--------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/> |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/> |
| 3. Local Radio/TV                 | <input type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/> |
| 5. Other (please specify) .....   | <input type="checkbox"/> |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐ *TO THE EXTENT INDICATED ON THE SURVEY*

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input type="checkbox"/>            |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input type="checkbox"/>            |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....                               |

.....

.....

.....

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☒

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☐

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☒

Publish flood maps on Council website ☒

Undertake a continuing flood awareness and community education program ☒

**PROVIDE ACCURATE INFORMATION.**

**BROAD BRUSH INFORMATION OBTAINED FROM  
AERIAL SURVEYS OR INACCURATE SOURCES SHOULD NOT  
BE USED.**

Thank you for providing the above information.



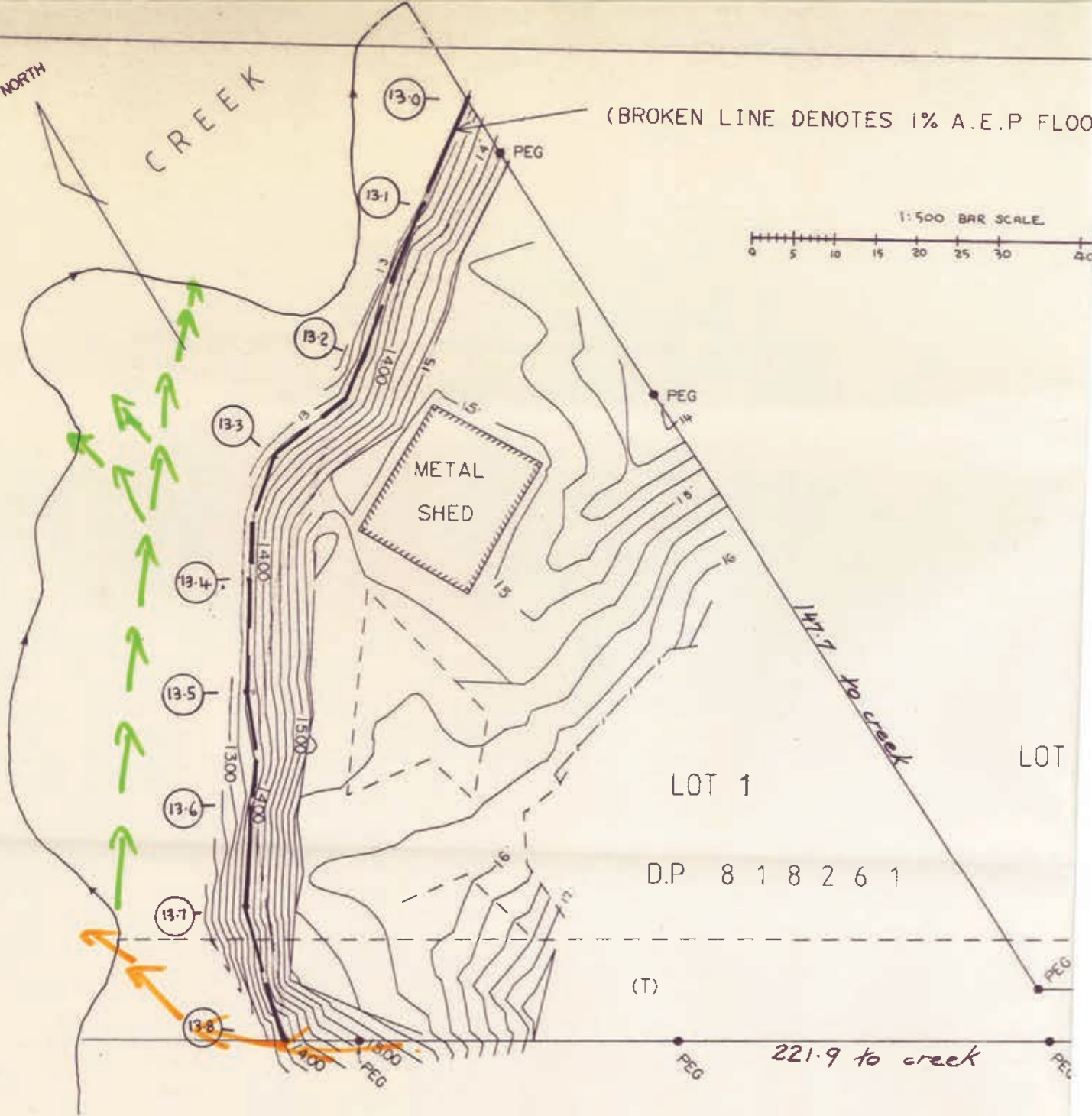
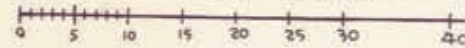
FOUNTAIN

NORTH

CREEK

(BROKEN LINE DENOTES 1% A.E.P FLOOD

1:500 BAR SCALE



NOTE : POSITION  
1% A.E.P FLOOD C

ORIGIN OF LEVELS  
B.M CUT IN HEADWALL Reduced Level RL = 31.655 METRES  
AUSTRALIAN HEIGHT DATUM  
SHOWN ON D.P 818261.

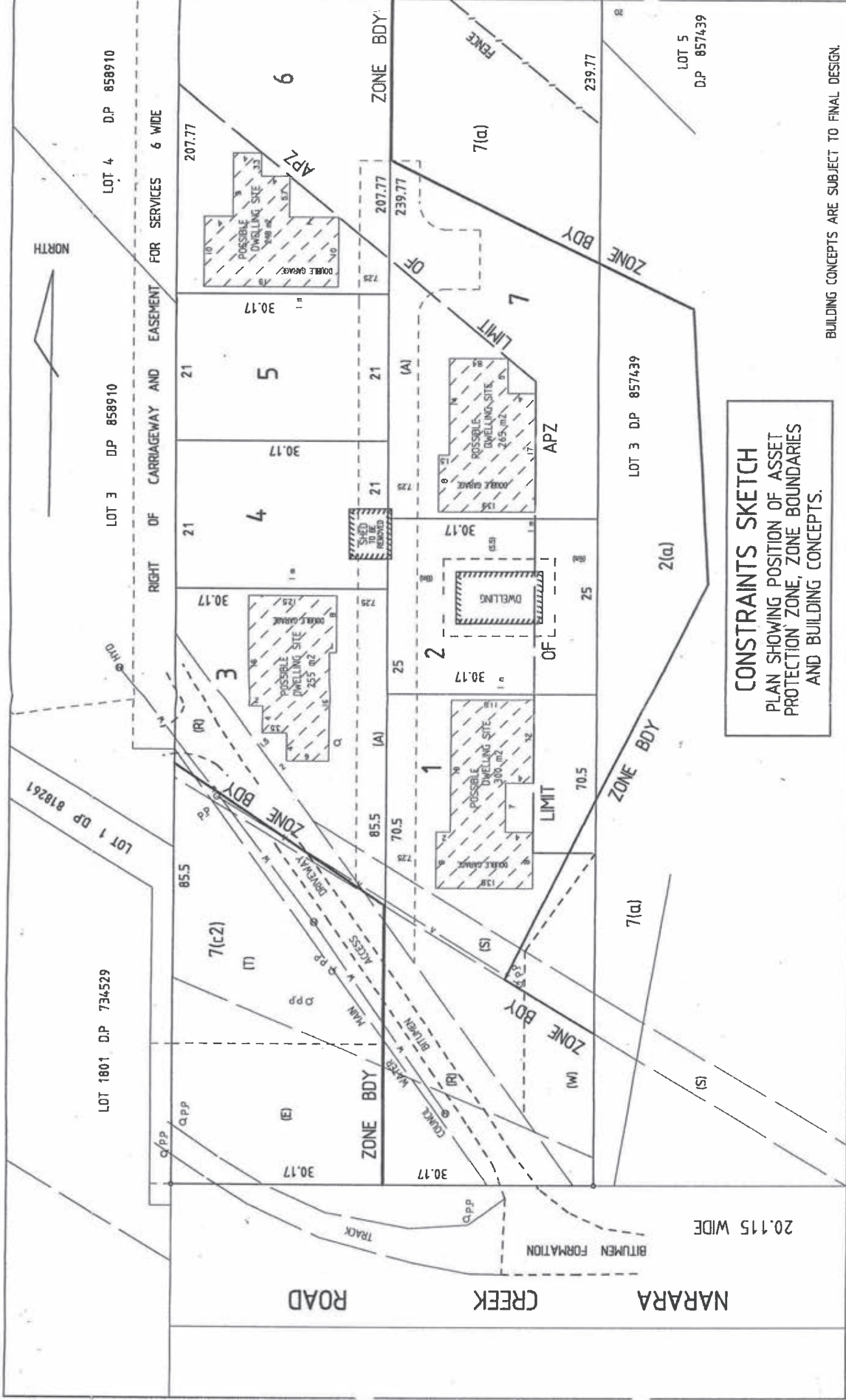
SCALE  
DATUM  
DATE C  
REFERE  
CONTOUR  
CLIENT



- 2



1:500 OF LEVELS : A.H.D F SURVEY : 18-12-98 NCE : 12768  INTERVAL : 0.25 m  : D & L CRAIG	PLAN  SHOWING THE POSITION OF THE 1% A.E.P FLOOD LINE THROUGH LOT 1 IN D. P. 818261.  93 NARARA CREEK ROAD, NARARA.	BISSETT & WRIGHT PTY LTD CONSULTING SURVEYORS  SUITE 103 106 - 108 ERINA STREET GOSFORD 2250  PH.02 43243799 FAX 02 43247941
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**CONSTRAINTS SKETCH**  
 PLAN SHOWING POSITION OF ASSET  
 PROTECTION ZONE, ZONE BOUNDARIES  
 AND BUILDING CONCEPTS.

BUILDING CONCEPTS ARE SUBJECT TO FINAL DESIGN.

<b>CAUTION</b> 1. BEARINGS & DISTANCES OF BOUNDARIES ARE BY TITLE AND/OR DEED ONLY. 2. THE RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. 3. THEY SHOULD BE CONFIRMED BY A FURTHER SURVEY.	<b>BISSETT &amp; WRIGHT</b> PTY LIMITED <small>ACN 0014 312 912 ABN 31 001 312 912</small> <b>LAND SURVEYING, ENGINEERING AND PLANNING.</b> SUITE 103 106 - 108 ERINA STREET GOSFORD NSW 2250 PHONE . 02 43 243799 FAX . 02 43 247941 EMAIL. bw@betspace.net.au		SCALE - 1 : 500 DATUM OF LEVELS - AHD	PROPOSED STAGED SUBDIVISION LAYOUT PLAN DATED 15 MAY 2006.
	CLIENT - E. & C. BROWN PROPERTY - 85 NARARA CREEK ROAD, NARARA.		LOT/DP - LOT 1 SECTION 22 DP 2240	
	REF - DWG 3646C			







Google maps Address

To see all the details that are visible on the screen, use the "Print" link next to the map.

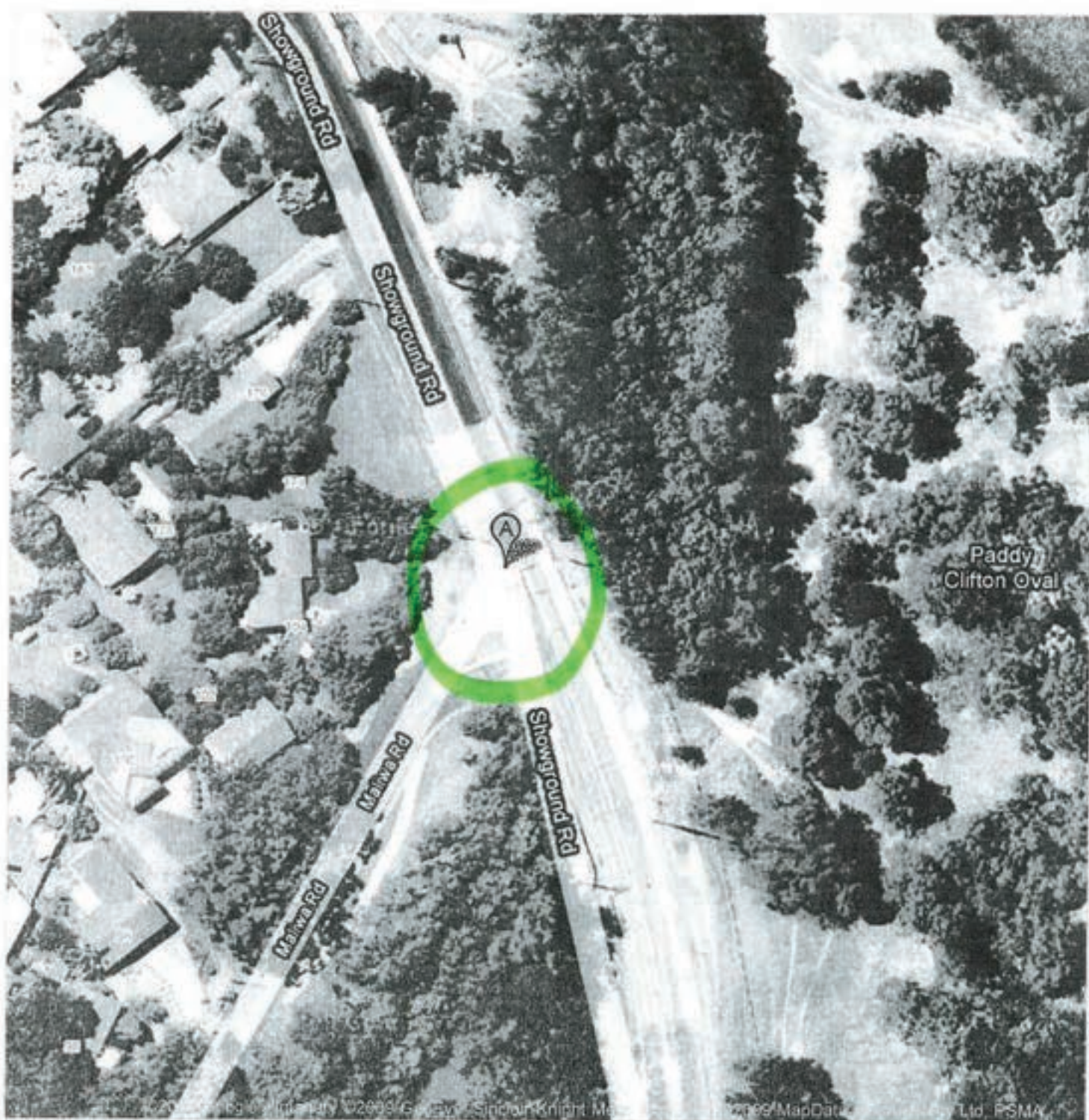


166 Mann... | 156 Mann... | 146 Mann... | 126 Mann...



Google maps Address

To see all the details that are visible on the screen, use the "Print" link next to the map.



Friday 5/2

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

recieved :
19/02/2010



Would you be able to provide some details of the largest flood:

Stormwater can't get away  
backs up pipes floods factories  
4 inches over factory floor

- Q4. Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD ☐ BUILDING (ABOVE FLOOR LEVEL) ☐  
BACKYARD ☐ BUILDING (BELOW FLOOR LEVEL) ☐  
GARAGE ☐ OTHER ☐

If 'OTHER', please specify: Car park + some factory units

- Q5. Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD ..... BUILDING (ABOVE FLOOR LEVEL) .....  
BACKYARD ..... BUILDING (BELOW FLOOR LEVEL) ..... 100 mm in building  
GARAGE ..... OTHER (as per Q4 above) ..... 19/2/2012

- Q6. Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED (such as building, fence, garage etc.) negligible as  
Factory floors are concrete  
and we've had problem  
before so warehouses are  
open / set up to minimise probs

DAMAGE \$.....

- Q7. Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL ☐ ROADS & PATHS ☒  
COMMERCIAL ☒ OTHER ☒  
PARKS ☐

If 'OTHER', please specify: near of complex

- Q8. If possible, can you please provide the address of the flood affected property/area?

Address: ..... *End of Fountains Rd / Haulan St*  
.....  
..... *Rear of our units (Manns Rd West side)*  
..... *Showground Road*

- Q9. Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1		
2	<i>Multiple times</i>	
3		
4		

- Q10. If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☐

NO ☒

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

.....  
.....  
.....  
.....  
.....  
.....  
.....



Q11. Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

Seemed to be less problems  
Since did rock walls near Manns (Shorepoint)

High tide - heavy rain - water  
can't get away - we've put overflow  
stormwater system in to ease on our  
property - needs to be more open Railway  
bridge  
cutoff

Q12. Have you ever received warning for an impending flood? If yes, what has been your source of information?

1. State Emergency Services (SES) ☐
2. Bureau of Meteorology (BOM) ☐
3. Local Radio/TV ☐
4. Gosford Council ☐
5. Other (please specify) Neighbours ☐

Q13. Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

Q14. Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- Detention Basin ☐
- Levees or flood walls ☐
- Creek enlargement ☐
- Bridge/Culvert enlargement ☒
- Floodway construction ☒
- House Raising ☐
- Development Controls ☐
- Other (please specify) ☐

Rear of factories  
Manns Rd

Railway Bridge

Dredge Narara creek

double escape under

Railway bridge  
water is held back  
nowhere to go

Could open & tide rocks more

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future

☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls

☒

There should not be any control on development in the flood prone areas

☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property

☒

Publish flood maps on Council website

☐

Undertake a continuing flood awareness and community education program

☐

Thank you for providing the above information.

## **REVIEW OF NARARA CREEK FLOOD STUDY, FLOODPLAIN RISK MANAGEMENT STUDY & PLAN**

### **COMMUNITY QUESTIONNAIRE**

Dear Resident,

Gosford City Council has initiated a review of the Narara Creek Flood Study, Floodplain Risk Management Study & Plan to manage the flood risk in the Narara Creek Catchment. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself.

Floodplain risk management in Gosford Local Government Area is undertaken as per the State Government's guidelines provided by NSW State Government through the Floodplain Development Manual which involves data collection, preparation of a Flood Study, Floodplain Risk Management Study and Floodplain Risk Management Plan. Council has commissioned Golder Associates to undertake a study to identify flood risk management measures for all major creeks in the Narara Creek catchment, and prepare a plan to implement these measures.

The purpose of this letter is to seek input from you about flooding and overland flows that you have experienced or noticed in the Narara Creek catchment. Please note that we are seeking information from residents of various catchments including Narara Creek, Fountain Creek, Wyoming Creek, Stoney Creek, Wingello Creek and Bradys Gully Creek.

Accordingly, please find attached a questionnaire which we would appreciate if you could complete and return using the enclosed reply-paid envelope by **11 December 2009**.

All information will be treated in accordance with Council's Privacy Policy.

Some of this information will be used to inform a topographic survey of parts of the catchment, which you may notice being undertaken in the coming weeks. As part of this work, the surveyors working with Golder Associates may need to enter your property. Please provide assistance on such occasions as lack of survey data can be a significant impact on study results. Your cooperation in this regard would be much appreciated.

For further information on flood risk management planning in the Narara Creek catchment please contact Mr Habib Rehman, Consultant's Project Manager on 02 94783900 or hrehman@golder.com.au. Alternatively, you can contact Erensa Shrestha, Council's Flooding and Drainage Engineer, on 02 4304 7087 or at Erensa.Shrestha@gosford.nsw.gov.au if you have specific queries regarding the Narara Creek Flood Study, Floodplain Risk Management Study & Plan.

**GOLDER ASSOCIATES PTY LTD**

Golder Associates has been commissioned by Gosford Council to undertake a Review of the Narara Creek Flood Study, Floodplain Risk Management Study and Plan. The catchment covers the suburbs of Somersby, Narara, Niagara Park, the western part of Lisarow, Wyoming, the southern part of Mount Elliot, North Gosford, West Gosford and part of Gosford itself. Major creeks in the study area include Fountain Creek, Stoney Creek, Wyoming Creek, Wingello Creek and Bradys Gully.

As part of this study, we are seeking information from the community. Please answer the following questions as best as you can. When you have finished answering the questions, please return these pages in the enclosed "reply-paid" envelope.

We appreciate your time to complete this questionnaire as the information provided by you is critical to the success of this study.

--	--	--

Would you be able to provide some details of the largest flood:

.....  
.....  
.....  
.....

**Q4.** Can you describe the area of the property that was affected during the largest flood? (You may tick more than one box)

FRONTYARD	<input type="checkbox"/>	BUILDING (ABOVE FLOOR LEVEL)	<input type="checkbox"/>
BACKYARD	<input checked="" type="checkbox"/>	BUILDING (BELOW FLOOR LEVEL)	<input type="checkbox"/>
GARAGE	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

If 'OTHER', please specify: .....

**Q5.** Can you provide an estimate of the depth of flooding for the largest flood event? (Please indicate the units for depth: e.g. m, cm, mm, feet, inches)

FRONTYARD	.....	BUILDING (ABOVE FLOOR LEVEL)	.....
BACKYARD	1200mm	BUILDING (BELOW FLOOR LEVEL)	.....
GARAGE	.....	OTHER (as per Q4 above)	.....

**Q6.** Can you provide details of the damaged property and an estimate of damages caused by the largest flood?

PROPERTY DAMAGED  
(such as building, fence, garage etc.)

*WE MINIMISE PROPERTY DAMAGE  
BY MOVING EQUIPMENT TO HIGHER  
GROUND. COST TO US IS TIME LOST  
TO BUSINESS DUE TO FLOODS.*

DAMAGE \$.....

**Q7.** Have you ever observed or experienced flooding or overland flows in the study area other than your property? If so can you describe what type of property was affected?

For example, you may have observed flooding or overland flow in your street that affected a neighbour's property or perhaps near where you work or shop (Please tick the appropriate box).

RESIDENTIAL	<input type="checkbox"/>	ROADS & PATHS	<input checked="" type="checkbox"/>
COMMERCIAL	<input type="checkbox"/>	OTHER	<input type="checkbox"/>
PARKS	<input type="checkbox"/>		

If 'OTHER', please specify: .....

**Q8.** If possible, can you please provide the address of the flood affected property/area?

Address: 7 B MALIWA RD  
NARARA

**Q9.** Do you remember when this flooding or overland flow occurred? Can you please provide us the dates for this flooding?

No.	Date	Time of the day
1	THREE FLOODS IN THE LAST 12 YEARS. EXACT TIME UNKNOWN.	
2		
3		
4		

**Q10.** If you have experienced flooding or overland flow in and around your property or anywhere in study area, do you have any evidence of the extent of the affected areas? (Tick one box)

YES ☒ NO ☐

If you answered YES, please give as much detail as possible.

It could be a photograph or a video that you may have taken of the event. You may be able to point out a mark on the wall or a post in the street that relates to the depth of flooding or flow during a particular flood event.

We would also appreciate if you could inquire from someone you know, who has lived in the area for a long time and may have the above information.

Details of the event:

I CAN SHOW THE MAXIMUM  
HEIGHT OF THE WATER



**Q11.** Is there anything else you would like to tell us about flooding or overland flows in the study area?

If so, please provide the information below:

.....  
.....  
.....  
.....  
.....  
.....

**Q12.** Have you ever received warning for an impending flood? If yes, what has been your source of information?

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| 1. State Emergency Services (SES) | <input type="checkbox"/>            |
| 2. Bureau of Meteorology (BOM)    | <input type="checkbox"/>            |
| 3. Local Radio/TV                 | <input checked="" type="checkbox"/> |
| 4. Gosford Council                | <input type="checkbox"/>            |
| 5. Other (please specify) .....   | <input type="checkbox"/>            |

**Q13.** Do you think your property is liable to flooding from the nearby creek?

YES ☒ NO ☐

**Q14.** Which of the following measures do you think would provide relief from flooding to your property or in the study area? (You may tick more than one box)

- |                            |                                     |
|----------------------------|-------------------------------------|
| Detention Basin            | <input type="checkbox"/>            |
| Levees or flood walls      | <input checked="" type="checkbox"/> |
| Creek enlargement          | <input type="checkbox"/>            |
| Bridge/Culvert enlargement | <input type="checkbox"/>            |
| Floodway construction      | <input checked="" type="checkbox"/> |
| House Raising              | <input type="checkbox"/>            |
| Development Controls       | <input checked="" type="checkbox"/> |
| Other (please specify)     | .....<br>.....<br>.....             |

**Q15. Setting development controls is an important part of floodplain management. Which of the following development scenarios do you think is most appropriate (Please select one)?**

No development should be allowed in any area that is currently flooded or is likely to flood in future ☐

Development should be allowed in the flood prone areas after due consideration of flood hazard and application of appropriate development controls ☒

There should not be any control on development in the flood prone areas ☐

**Q16. Which of the following methods should Council use to inform the community about flooding issues in the study area? (You may tick more than one box)**

Send out a letter informing the flood affectation of the property ☐

Publish flood maps on Council website ☐

Undertake a continuing flood awareness and community education program ☒

Thank you for providing the above information.

At Golder Associates we strive to be the most respected global group of companies specialising in ground engineering and environmental services. Employee owned since our formation in 1960, we have created a unique culture with pride in ownership, resulting in long-term organisational stability. Golder professionals take the time to build an understanding of client needs and of the specific environments in which they operate. We continue to expand our technical capabilities and have experienced steady growth with employees now operating from offices located throughout Africa, Asia, Australasia, Europe, North America and South America.

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South America	+ 55 21 3095 9500

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