

Rapid Damage Assessment Exercise



RAPID DAMAGE ASSESSMENT EXERCISE

EXERCISE INTENT

Follows successful completion of online PDBA RDA Course

Gives participants the opportunity to complete;

- The Rapid Damage Assessment Form
- PDBA Placard

RAPID DAMAGE ASSESSMENT EXERCISE

EXERCISE INSTRUCTION

Participants will be provided with the following;

- Exercise Scenario
- A set of photographs of a building to be assessed
- Rapid Damage Assessment Forms
- Placards (Green, Yellow and Red).

RAPID DAMAGE ASSESSMENT EXERCISE

EXERCISE FORMAT

The exercise will consist of;

- Scenario
- Safety Briefing
- Technical Briefing
- Assessment of a Building
- Review and discussion of results

RAPID DAMAGE ASSESSMENT EXERCISE

EXERCISE TIMING

- Following the technical briefing, participants will have 30 minutes to fill out a Rapid Damage Assessment form and applicable placard

RAPID DAMAGE ASSESSMENT EXERCISE

SCENARIO

In the last two days there has been significant rainfall combined with snow melt which has resulted in flooding of parts of Yorkton.

A State of Local Emergency has been declared by the Mayor.

An evacuation order has been issued for areas along the river in the flood plain.

The local Search and Rescue (SAR) team has been deployed to assist and rescue people in the worst flooded areas.

The six (6) Rapid Damage Teams have been assembled and are starting to assess building in areas where the water level is now dropping.

RAPID DAMAGE ASSESSMENT EXERCISE

SAFETY BRIEFING

Your Safety – Your top Priority

Use of PPE – Safety Boots, Hard Hat, high visibility vests, dust mask

Use of the Buddy system – (minimum size of an RDA Team is two persons)

Daylight – Assessment are only to be done during daylight hours

Flood Hazards

- Fast Flowing water – to be avoided
- Deep water – check depth before stepping into water

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SAFETY BRIEFING (Continued)

Utilities

The known status of utilities will be reviewed. In this scenario the power to the area of the “Flats” has been turned off.

Weather Related precautions

Depending on weather, hazards such as heat exhaustion or hypothermia will be reviewed. This will include symptoms and actions to be taken by the individual impacted and the team

RAPID DAMAGE ASSESSMENT EXERCISE

SAFETY BRIEFING (Continued) - Review of the RDA A, B, Cs

A – AREA

Depends on status of utilities

Safety distance for a downed power line – 10 metres (treat as live unless you know otherwise)

B- BUILDING

When walking around a building watch for holes, septic tanks

Check meters to the building to whether power or gas is still being supplied

C- CONTENTS

Do not step into water that may be energised

RAPID DAMAGE ASSESSMENT EXERCISE

TECHNICAL BRIEFING

Review of RDA Form

1. Assessment – review jurisdiction and ID, date/time and whether exterior or interior
2. Building Description – address important, may not know type of construction or primary occupancy but the map will provide clues plus check “Street view – Google Maps”
 - Number of Storeys above ground – windows will be an indicator
 - Number of Storeys below ground – look for window openings below ground floor

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TECHNICAL BRIEFING

Review of RDA Form (Continued)

3. Observed Conditions

There are two main scenarios during flooding, depending on where the building is located.

- The first and most common is flood waters entering a building without pushing the building off foundation or significant loss of ground around the building.
- The second and more likely to occur, in close proximity to a river, is when there is erosion of ground that may lead to undermining of the foundation of the building leading potential collapse and being washed away.

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TECHNICAL BRIEFING

Review of RDA Form (Continued)

THE MOST CRITICAL OBSERVATION

In comments on the form please reference the height of the flood water i.e. high water mark to the main (ground floor) of building

For example – “High water mark was 1.2 metres above the ground floor”

POSTING

RESTRICTED USE – YELLOW PLACARD

This will be the case when flood waters have risen above the electrical outlets in a basement or ground floor thereby causing a restriction as the electrical system has been compromised.

RAPID DAMAGE ASSESSMENT EXERCISE

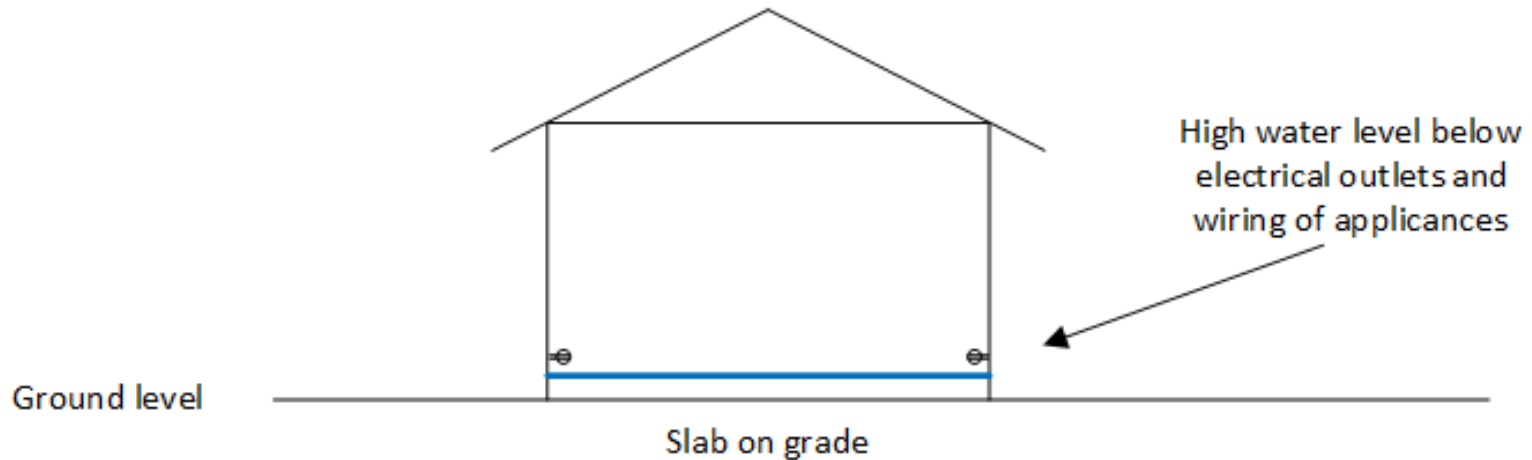
TECHNICAL BRIEFING

Review of RDA Form (Continued)

UNSAFE – RED PLACARD

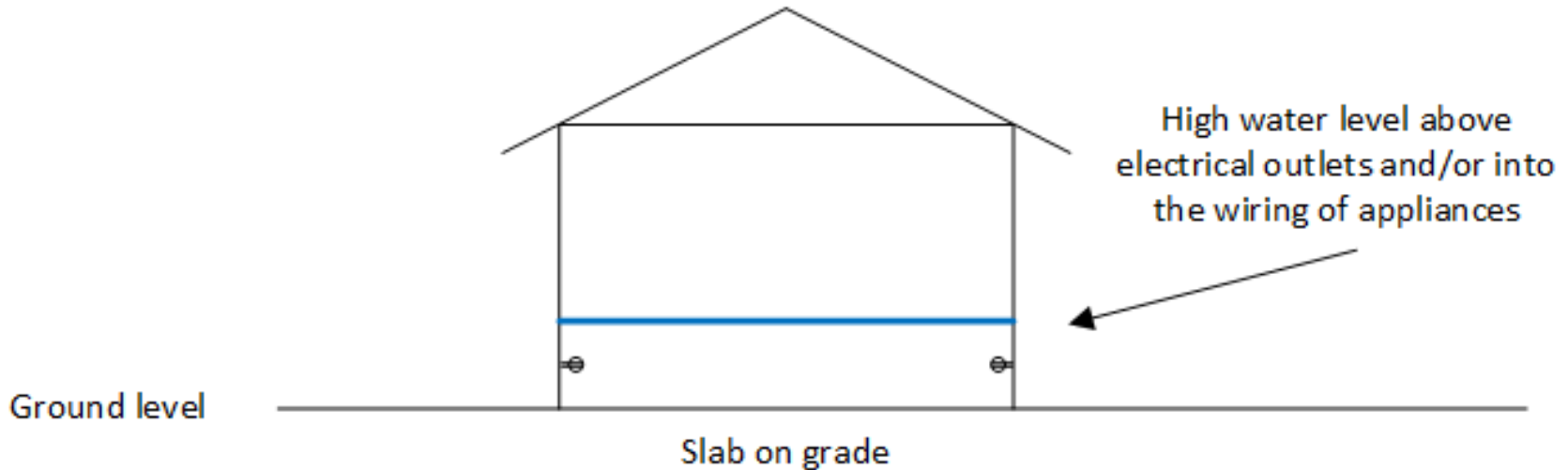
This will be the case when flood waters have either pushed the building partially or totally off foundation, or there is significant undermining of the foundation due to loss of ground near the building.

Flooding “Minor – None” rating **INSPECTED**

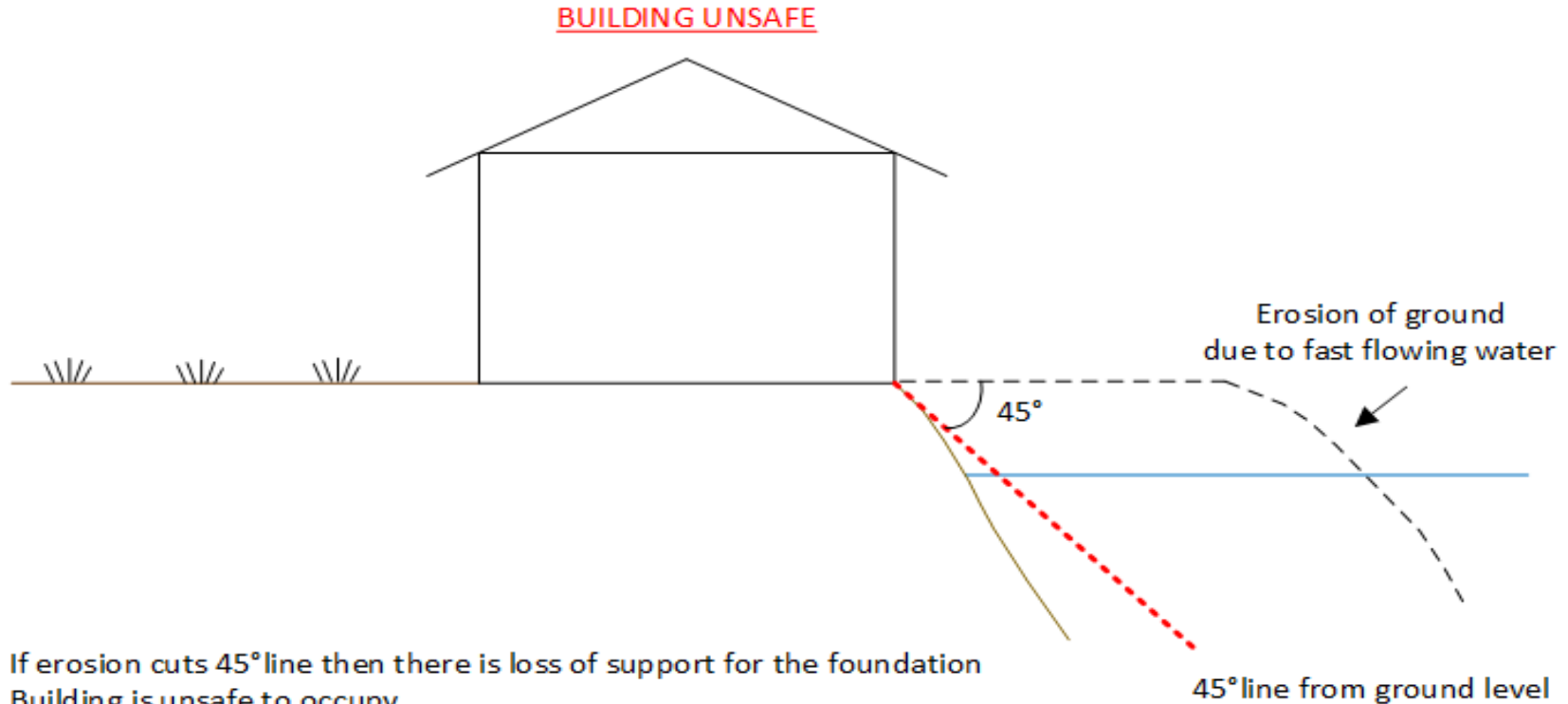


POST-DISASTER BUILDING ASSESSMENT

Flooding - “Moderate” rating **RESTRICTED USE**



POST-DISASTER BUILDING ASSESSMENT



If building ground floor is level – Geotechnical evaluation required
If building is leaning – structural plus geotechnical evaluation required

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TECHNICAL BRIEFING (Continued)

USE OF PHOTOGRAPHS

- Take photo of building / foundation from the street side
- Do not take photos of people
- Take photo of Yellow Placard if and when posted on the building

NOT PERMITTED ON PROPERTY

- Do not complete the assessment
- Make a note – Denied entry to property and/ or building

CAUTION TAPE

Use as practical to identify any hazards around buildings

RAPID DAMAGE ASSESSMENT EXERCISE

DEPLOYMENT

Following the safety briefing and technical briefing you as part of one of the RDA teams have been sent out to an area called “The Flats” to assess building near the River.

Open the folder marked photographs.

There are 4 photos (one per side) of a building on River Road.









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Please complete RDA Assessment Form and Placard

PDBA – Rapid Damage Assessment Exercise

RAPID DAMAGE ASSESSMENT FORM

1 ASSESSMENT Photos taken: Yes No

Jurisdiction: (YOUR COMMUNITY)

Assessment date: 30 MAR 23
(DD MM YY)

Time: 1335
(24 hour clock)

Assessor ID/Agency: TEAM 1 / PUBLIC WORKS

Areas assessed: Exterior Only Exterior and interior

2 BUILDING DESCRIPTION

Building Name:

Address: 11 RIVER ROAD, YORKTON

Building contact/phone:

Number of storeys above ground: 2 below ground: 1

Number of units within building (residential/commercial):

Type of Construction

Wood Frame Steel Frame Concrete Frame
 Masonry Other: Unknown

Occupancy Type (check all that apply)

Single Family Dwelling Industrial School
 Multi-residential Offices Government
 Emergency Services Commercial Other:

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3

ASSESSMENT

Initial



Follow-up



Investigate the building and area around it. Circle the observed condition and check the appropriate column.

Observed Conditions:

	Minor/None	Moderate	Severe
Collapse, partial collapse, or building off foundation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Building or storey leaning / out of plumb	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damage to primary structural members, racking of walls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Falling hazards such as chimney, parapet, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ground movement or slope failure, scour, erosion	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Damaged / Submerged fixtures (water / sewer / electrical / gas)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proximity risks / other (specify):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Number of residential/commercial units not habitable:

Comments: WATER HAS FLOODED INTO THE BASEMENT VIA THE BASEMENT WINDOWS
HIGH WATER MARK - 0.3 METRES BELOW GROUND FLOOR

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4 POSTING

Severe conditions endangering the overall building are grounds for an Unsafe posting. Localized Severe and overall Moderate conditions may allow a Restricted Use posting. Where required, ensure that RESTRICTED USE and UNSAFE placards are posted at all entrances.

Number of Placards Posted: **INSPECTED** (Green) **RESTRICTED USE** (Yellow) **UNSAFE** (Red)

Record any use and entry restrictions exactly as printed on the **YELLOW** placard:

Do not enter or use the following areas: **BASEMENT UNTIL WATER DRAINS OR IS PUMPED OUT**

Brief entry allowed for access to contents:

Do not use flooded/damaged appliances, devices or services (**electric, gas**) until recertified by a licensed contractor

Other restrictions:

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5 FURTHER ACTIONS Check the boxes below only if further actions are needed.

Barricades needed in the following areas:

Further Assessment recommended Detailed Structural Geotechnical Other

Other recommendations:

Comments: ELECTRIC POWER AND GAS SUPPLY IS OFF AT HOUSE

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RESTRICTED USE

Do Not Remove, Alter, or Cover this Placard
until authorised by Governing Authority or Chief and Council

This is very important. Please ask someone to assist you.

注意！ - 如果你唔識英文，請尋求幫助。

ਬਹੁਤ ਜ਼ਰੂਰੀ ! ਜੇ ਤੁਹਾਨੂੰ ਨਹੀਂ ਅੰਗਰੇਜ਼ੀ ਆਉਂਦੀ ਫਿਰ ਕਿਸੇ ਤੋਂ ਮੱਦਤ ਲਵੋ

C'est important. Demandez a quelqu'un de vous aidez avec ceci.

Esto es importante. Por favor pídale a alguien para ayudarlo con esto.

Điều này rất quan trọng. Xin vui lòng yêu cầu một người nào đó giúp đỡ trong việc này.

FACILITY NAME / ADDRESS: 11 RIVER ROAD, YORKTON

DATE: 30 MAR 23

TIME: 1335

CAUTION: This structure has been inspected for life safety purposes only and found to be damaged as described below: WATER HAS FLOODED INTO THE BASEMENT VIA THE

BASEMENT WINDOWS

HIGH WATER MARK - 0.3 METRES BELOW GROUND FLOOR

Entry, occupancy, and lawful use are restricted as indicated below:

- Do not enter or use the following areas: BASEMENT UNTIL WATER DRAINS OR IS PUMPED OUT
- Brief entry allowed for access to contents: _____
- Do not use flooded/damaged appliances, sewer, water, electrical, or gas until recertified by a licensed contractor (Circle all that apply)
- Other restrictions: _____

This facility was inspected under emergency conditions for: (YOUR COMMUNITY)

The property/building was not inspected/assessed for legislative or code compliance or insurance or financial reimbursement purposes. The assessment did not include inspection of concealed/hidden areas, equipment operation, presence of insects, rot and hazardous materials such as: asbestos, radon gas, lead paint, urea formaldehyde, toxic chemicals, mould, and/or contamination.

JURISDICTION

TEAM 1/PUBLIC WORKS

ASSESSOR ID / AGENCY