

Date: 20th May 2025

See Distribution List

Dear Sir/Madam

Post-TOP Annual Declaration on Storm Water Drainage Systems including Flood Protection Measures

This circular serves to inform all Developers and Managing Agents to make annual declarations to PUB if their developments/ properties are implemented with flood protection measures .

Introducing Regulatory Maintenance Regime for Flood Protection Measures

2 Arising from amendments to the Sewerage and Drainage Act (SDA) on 1 Mar 2025, which specify that owners are responsible for ensuring their stormwater drainage system, including flood protection measures within their premises are in proper order, changes have been made in the Code of Practice on Surface Water Drainage (COPSWD) to streamline the requirement for owners and Managing Agents to submit annual declarations on the maintenance of flood barriers, pumped detention tanks and pumped drainage systems to PUB.

3 Currently, developments with flood barriers and pumped detention tanks are already required to make annual declarations and submissions to PUB upon obtaining the Temporary Occupation Permit (refer to Clause 13 in the COPSWD 7th Ed, Addendum No.2). The intent of the changes in Addendum No. 3 is to simplify and standardise the submission requirements based on development types as shown in **Table 1**.

Annual Declaration to PUB

4 Please note that annual declarations to PUB is required when your developments /properties are implemented with any of the following flood protection measures.

- Flood barriers (manual /automated type)
- Pumped detention tanks
- Pumped drainage system (only applicable for Road /Underground Rapid Transit Tunnels, Portals and Vehicular Underpasses)

Submission requirements for the annual declaration shall vary depending on the development types, with all relevant details provided in **Table 1**. Please note that annual declaration to PUB is not required if your developments/ properties did not implement any flood protection measures listed above.

5 The annual declaration shall be submitted online via PUB's Business & Professional Portal at <https://www.eservices.pub.gov.sg>. Declaration exercise to be carried out 12 months from TOP Date/ last declaration date and between Sept to Dec each year for subsequent years. For more information, please refer to the set of slides attached in **Annex**.

Queries on the Circular

6 If you have any queries regarding the annual declaration exercise, you may contact us at [WONG Hock Hua@pub.gov.sg](mailto:WONG_Hock_Hua@pub.gov.sg) or [Vickramathithaan VEGADASALAM BATHI@pub.gov.sg](mailto:Vickramathithaan_VEGADASALAM_BATHI@pub.gov.sg).

Yours Faithfully,



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Catchment and Waterways Department
PUB, Singapore's National Water Agency

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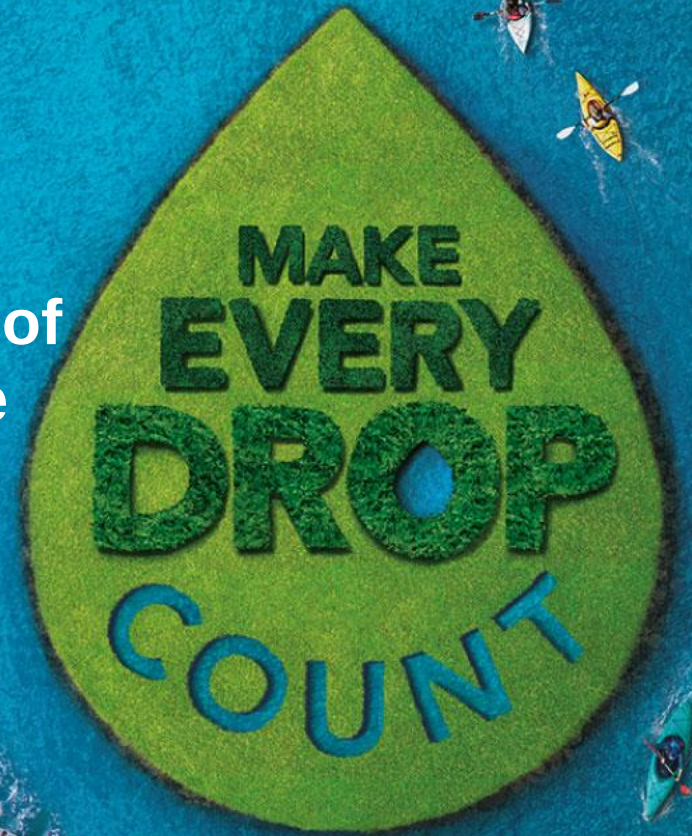
Table 1: Existing vs New Requirements in COP Addendum

Type of Developments	Existing Submission Requirements in 7th Edition COPSWD	Changes in Submission Requirements in COP Addendum No.3 (changes are in bold)
Critical/Key Infrastructure (CI/KI), Special Facilities (e.g. MRT) OR Developments with direct/indirect linkages to underground Special Facilities	<u>Flood barrier:</u> <i>Automated flood barrier - Certificate of inspection by PE(Civil/Mech) together with supporting documents such as on-site leak test report, photographs and operations SOP.</i> <u>Pumped Detention Tank:</u> <i>Electrical license issued by EMA, maintenance records of pumps, level control systems and cleaning and desilting records.</i>	All CIs and KIs with the following measures will need to provide annual submissions to PUB for record: <u>Flood barrier:</u> • <i>Automated flood barrier - Certificate of inspection endorsed by PE (Civil/Mechanical) & servicing report (e.g. on-site leak test) by maintenance contractors</i> • Manual flood barrier - Inspection & servicing report by maintenance Contractors • <i>Site layout plans indicating location(s) with flood barriers and photographs of flood barriers</i> <u>Pumped Detention Tank & Pumped drainage system (only applicable for Road /Underground Rapid Transit Tunnels, Portals and Vehicular Underpasses):</u> • <i>Inspection & servicing report by maintenance contractors (i.e. Maintenance records for pumps, level control system, cleaning and desilting records for tank and pump sump to be submitted annually for records.)</i> And letter as per below
All other multi-unit developments (non-CI/KI and Special Facilities) <u>with flood barriers and pumped detention tanks</u>, except single landed housing	As above.	An official letter with proper company letterhead endorsed by authorised representative from Developer/ Owner/ Managing Agent/ MCST/ Town Council, declaring that the stormwater drainage system including flood protection measures within the premises are regularly inspected, maintained and kept in proper order.

Annex - Attached

New updates in Legislation & Code of Practice for Surface Water Drainage

— *Essential Knowledge for Managing Agent*



Content

PUB's Efforts in Building Singapore Flood Resilience

Amendment of Sewerage and Drainage Act (SDA)

Understanding & Maintenance of Stormwater Drainage System including Flood Protection Measures

Post-TOP Annual Declaration on Stormwater Drainage Systems including Flood Protection Measures by Owners/Managing Agents

Frequently Asked Question (FAQ) - Post-TOP Annual Declaration

Singapore's Flood History

Singapore is low-lying and vulnerable to flooding

LOW-LYING

~30% of land area < 5m from mean sea level

SMALL & DENSELY POPULATED

Small island state of 734.3km² with a population of ~6.04 million is one of the countries with highest population densities in the world

SURROUNDED BY THE SEA

Affected by conditions in Andaman Sea / Malacca Straits and South China Sea, tidal range of 3m

TROPICAL EQUATORIAL CLIMATE

Abundant rainfall with mean annual ~2534mm with intense tropical convective rains (up to 150 mm/hr)

Historical Floods in Singapore



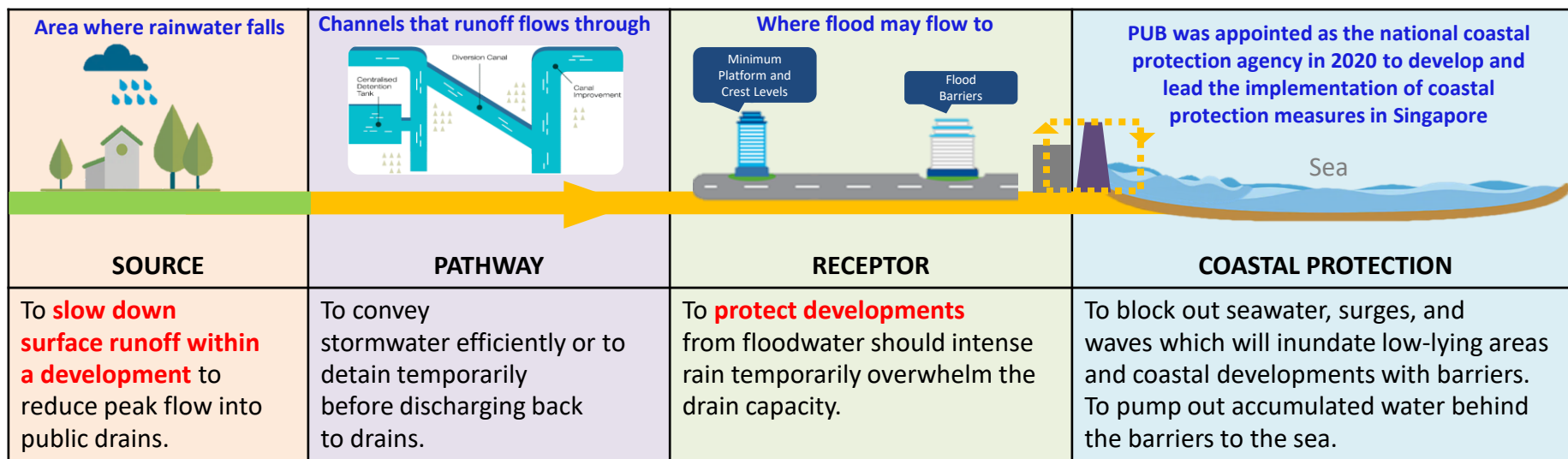
Flooding along a major road in Singapore in 1978

- In the 1960s/70s, Singapore experienced widespread flooding during the monsoon seasons
- Floods then lasted for more than 2 hours in general

Current Floods in Singapore

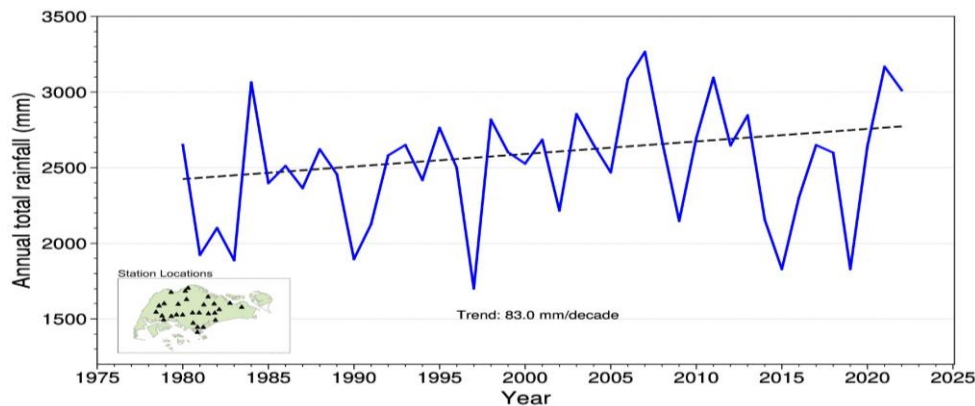
- Flood-prone areas reduced from ~**3200ha** in the 1970s to less than **30ha** today through drainage system improvements and raising of development platform levels
- Short intense bursts of rain over localized areas can still cause **flash floods**, but these are not extensive and are **short in duration** (typically subside within an hour)

PUB has adopted a holistic “Source-Pathway-Receptor” approach to enhance flood protection since 2014 , however, Climate Change is increasing flood risk in Singapore



CHALLENGES

- Historical rainfall data shows a trend towards higher rainfall intensities
- Climate change resulting more intense rainfall events and rising sea level
- Continue increased urbanisation in a country with limited land



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- Increased peak flows into public drainage system

In spite of PUB's Efforts...Flood Protection is a Collective Responsibility

Industry Professionals (Qualified Person, Professional Engineer, Architect and etc)

- ✓ Ensuring proper design and implementation of stormwater drainage system including flood protection measures that comply with PUB's COP(SWD)
- ✓ Considering future maintenance aspects during design stage
- ✓ Propose an inspection & maintenance regime for the stormwater drainage system including flood protection measures

Developers/ Owners

- ✓ Ensure stormwater drainage system including flood protection measures is well-maintained and keep in proper order at own expense.
- ✓ Ensure budgeting for maintenance of their flood protection measures and to ensure that their Managing Agent (MA) or Facilities Management (FM) are qualified and competent to implement the maintenance regime.

Managing Agent / Facilities Management

- ✓ To be aware of the stormwater drainage system including flood protection measures implemented in the premises
- ✓ To carry out regular inspection, maintenance & testing based on established regime and ensure all works are done properly by the qualified/competent personnel.

**Amendment of Sewerage and Drainage Act
(Bill Passed in Nov 2024)**

Amendment of Sewerage and Drainage Act (To enhance Flood Resilience)

These amendments will enhance flood resilience across the source-pathway-receptor measures.



SOURCE

- **Allowing PUB to prescribe regulation** requiring the implementation and maintenance of flood protection measures, such as detention tanks
- **Making it compulsory** for developments to maintain private flood protection measures



PATHWAY

- **Include non-construction activities and all public drains** when deterring activities causing obstruction to drainage
- **Extend silt control powers to non-construction activities** in addition to construction activities
- **Extend silt control powers to activities that discharge into reservoirs** in addition to drains
- **Raised penalties** to deter damage/unauthorized modifications to the stormwater drainage system



RECEPTOR

- **Allowing PUB to prescribe regulation** requiring the implementation and maintenance of flood protection measures, such as flood barriers and minimum platform levels

Amendment of Sewerage and Drainage Act (Relevant to Developers/Owners/ Managing Agents)

The proposed amendments to the Sewerage and Drainage Act are timely and important to **enhance flood resilience** and **safeguard Singapore's water supply**.

Secure Used Water System

- Increase deterrence for illegal trade effluent discharge and damage to sewers
- Protect sewers from damage

Enhance Flood Resilience

- **Require owners to maintain stormwater drainage systems and flood protection measures within their premises**
- Increase deterrence for actions that will result in flooding



Amendment of Sewerage and Drainage Act

(Important changes that can affect Property Owners)

Drains, etc., to be kept in proper order at cost of owners *(NEW)*

22A.—(1) Every stormwater drainage system or drain at any premises (but not any such system or drain under the control or supervision of the Board or maintained by the Board) must be altered, repaired and kept in proper order at the cost and expense of the owner of the premises.

(2) Without affecting subsection (1), where the stormwater drainage system or drain under that subsection or any part thereof —

- a) is connected to any other premises; and
- b) serves the drainage needs of the other premises,

then the owner of the other premises must also at its own costs and expense alter, repair and keep in proper order the system or drain or part thereof, as the case may be, at the premises under subsection (1).

Flood protection measures to be kept in proper order at cost of owners *(NEW)*

22B.—(1) The owner of any premises must alter, repair and keep in proper order every flood protection measure at the premises.

(2) The Board may, by written notice, require the owner mentioned in subsection (1) to do one or both of the following at the owner's own cost and expense:

- (a) to have the flood protection measure inspected and tested in such manner and at such intervals as the Board may require, to ensure that the flood protection measure is kept in good order;
- (b) to alter, repair or put in good order the flood protection measure in such manner as the Board may require.

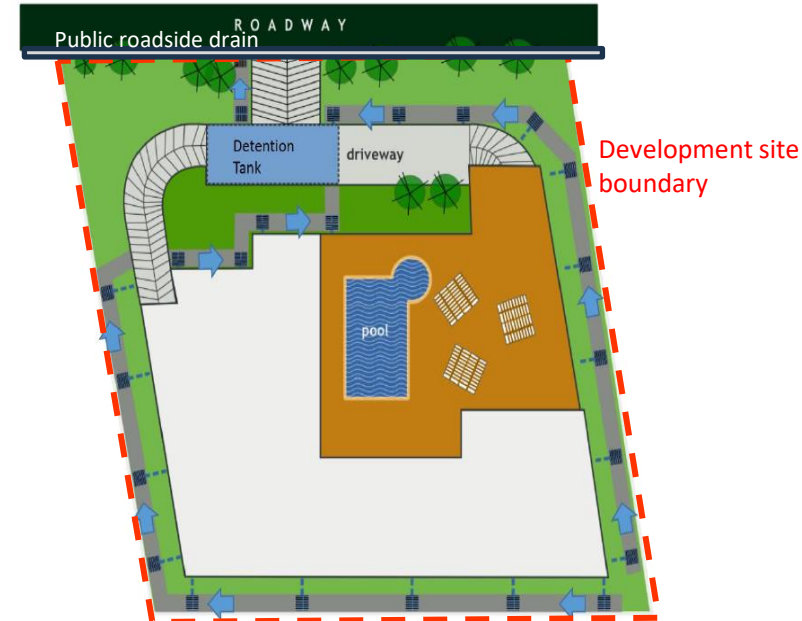
Owner shall be responsible to ensure stormwater drainage system including flood protection measures within the premises is well-maintained and keep in proper order at the cost of Owner.



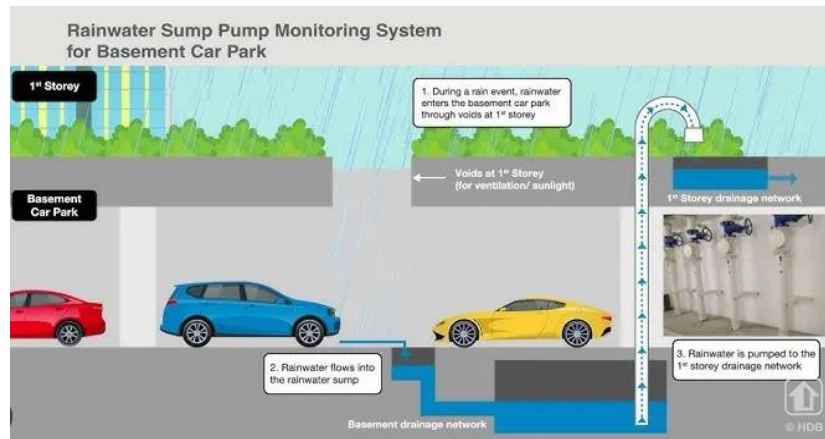
Understanding & Maintenance Of Stormwater Drainage System including Flood Protection Measures

Stormwater Drainage System including Flood Protection Measures that can be commonly found within a development

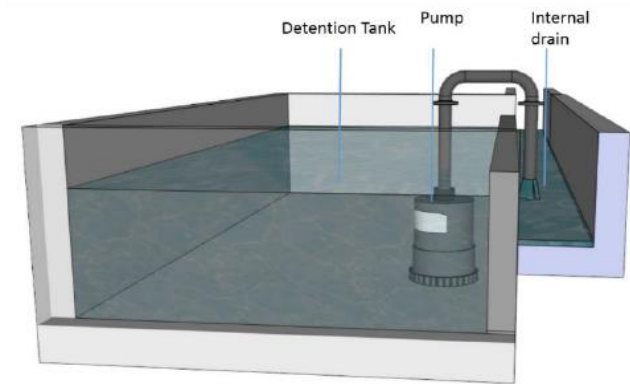
1. **Cut-off / Perimeter drains** – To ensure surface runoff within the development site can be properly contained and eventually discharge into public drain.
2. **Detention Tank(s)** - All developments with site area ≥ 0.2 ha, must designed and implement a stormwater detention tank to temporarily store the stormwater runoff within the development and discharge at a regulated /controlled flow rate into the public roadside drain via gravity or pumped system.
3. **Pumped Drainage System** – Designed to serve development with basement /underground facilities where rainwater can enter due to any openings to sky.



Cut-off / perimeter drains



Pumped Drainage System



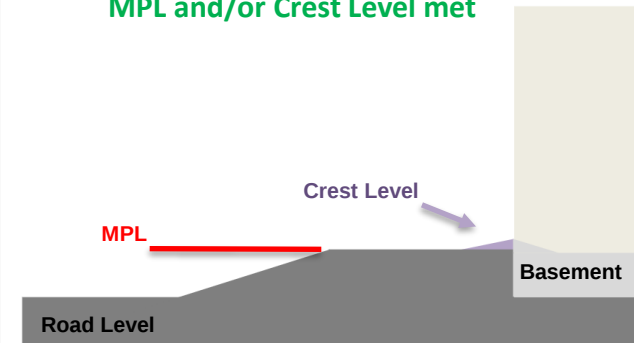
Detention Tank

Stormwater Drainage System including Flood Protection Measures that can be commonly found within a development

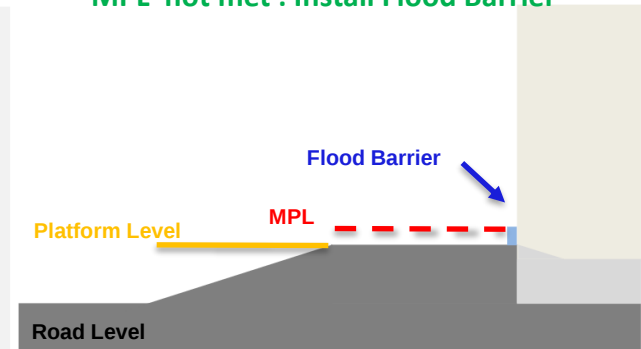
- **Crest Level** – A structural protection measure for developments with basements, particularly at entrance and exit points (e.g., structural humps at basement entrances)
- **Flood Barrier** – A protective measure implemented when developments cannot meet the required minimum platform level (MPL) and/or crest level requirements



MPL and/or Crest Level met



MPL not met : Install Flood Barrier



- PUB stipulates the **minimum platform level (MPL)** for the buildings and **crest level (CL)** for basement based on the type of development in **COP**.
- When MPL and/or crest levels cannot be met due to site constraints, developers are required to put in place flood protection measures (e.g. **Flood Barriers**) to make up for the shortfall.

What do Developers/Owners/Managing Agents need to take note for their premises in terms of maintenance responsibility?

Aware of the flood protection measures implemented in the premises

- ✓ There should be records of as-built drainage plans that shows the location, access, type and quantity of detention tank and pumped drainage system within the premises.
- ✓ Similarly for flood barrier, there should be as-built site layout plans to shows the various locations (e.g. usually 1st level entrances & exits) that are designed with flood barriers including the required flood protection level.

Established inspection & maintenance regime

- ✓ Conduct regular inspection, maintenance & testing based on established maintenance regime and ensure all O&M works are done properly by qualified personnels.
- ✓ Proper housekeeping of all inspection & maintenance records and as-built plans.
- ✓ Replacement of faulty pumps, sensors and auxiliary equipment shall be based on manufacturers' recommendations.
- ✓ Any change of original design or specification for flood protection measures, advice by a Qualified Personnel / Professional Engineer of the appropriate engineering discipline must be sought to ensure the drainage design remains adequate.



General Maintenance Considerations for Stormwater Drainage System including Flood Protection Measures

General Maintenance Consideration

Ensure no dead leaves or debris chokages at discharge inlet / outlet / vertical gratings

S/N	Stormwater Drainage System / Flood Protection Measures	Things to look out but not limited to the following:
1	Cut-off /Perimeter drain	• Stagnant water due to sunken drain • Removal of silt, to avoid reducing drain capacity • Free of any obstruction within the drain
2	Gravity Flow Detention Tank	• Removal of silt, to avoid reducing tank capacity
3	Pumped Detention Tank and Pumped Drainage System	• Regular inspection & maintenance of pumps (duty & standby), water level sensors, control panel, genset • Removal of silt, to avoid reducing tank capacity
4	Flood Barrier (Manual type or Automated type)	• Inspection to check if there is any physical damage or visible crack or degradation of rubber seal that can cause leakage and etc • Maintenance of any M&E components for automated flood barrier • Proper storage room for portable flood barrier and clear SOP for deployment • Conduct on-site leak test or light penetration test

Submission Requirements for Annual Declaration

- Importance of keeping Flood Protection Measures in proper order

➤ Flood Barrier

- Only applicable if a development is unable to meet the required flood protection level (i.e. minimum platform level and crest level if got basement) stated in COP.

➤ Pumped Detention Tank (Source Solution in the Source-Pathway-Receptor Approach)

- Unlike gravity detention tank, failure of pump system may result detention tank to be filled at maximum capacity and unable to cater for the next rain event. This may cause stormwater in the internal drain to back up and result flooding within the premises.
- Source control measure helps to detain the stormwater temporarily and slow down peak runoff into public drainage system which contribute to flood resilience.

➤ Pumped Drainage System (buildings and infrastructures with basement/ underground facilities)

- To protect basement/underground facilities where there are openings to sky.
- Similar concept like detention tank but in much smaller scale as it serve a smaller catchment area.
- Failure of pump system will result flooding to the basement, tunnel, underground facilities.



Failure to deploy or operate it in time, can result in serious flooding within the premises/ infrastructures

**Post-TOP Annual Declaration on
Storm Water Drainage Systems including Flood
Protection Measures**

*by
Developer/Owner/Managing Agent/MCST/Town Council*

Code of Practice (COP) on Surface Water Drainage

Code of Practice (COP) on Surface Water Drainage issued under Sewerage and Drainage Act (Chapter 294) specifies the minimum engineering requirements for surface water drainage for new and redevelopment proposals.

- ✓ Used by Professional Engineer /Qualified Person in planning, design and implementation of the development proposals.
- ✓ Prepared by PUB and Reviewed by a Committee made up of representatives from Professional Bodies (SIA, IES, SILA & ACES) and Government Agencies (PUB, BCA, CP2M, HDB, JTC, LTA, NEA, NPARKS, SCDF & URA)
- ✓ Stipulated the Annual Declaration requirements for stormwater drainage system including flood protection measures. To submit annually by Developer /Owner /Managing Agent / Facilities Management /Town Council to PUB.

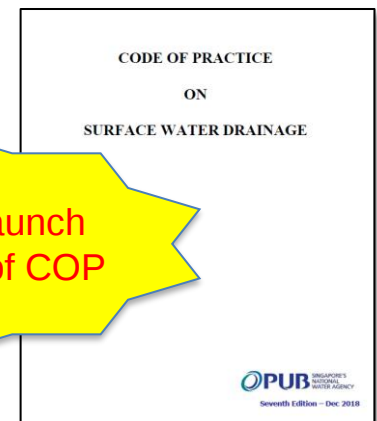


Version of COP

- 7th Edition in Dec 2018; Addendum No.2 in Oct 2023
- 7th Edition in Dec 2018; Addendum No.3 in April 2025



**Review & Launch
new version of COP**



Annual Declaration on Stormwater Drainage System including Flood Protection Measures



Old

13.2 Declaration on Storm Water Drainage Systems

13.2.1 Upon obtaining the Temporary Occupation Permit (TOP), the Developer/Owner/Managing Agent/ MCST/ Town Council shall make annual declarations and submissions for the following storm water drainage systems via PUB website – Qualified Persons Portal:

- i. For developments installed with automated flood protection devices, a certificate of inspection of the automated flood protection device endorsed by a PE (Civil or Mechanical) together with supporting documents such as on-site leak test report and photographs shall be submitted. The inspection shall make reference to any relevant international standards or any requirements specified by the Board.
- ii. For developments constructed with pumped detention tanks for detention function as stipulated in Clause 7.1.5, the following documents shall be submitted:
 - a) Annual electrical installation license issued by EMA;
 - b) Quarterly maintenance records of pumps;
 - c) Quarterly maintenance records of level control system; and
 - d) Quarterly cleaning and desilting records of tank and pump sump.

New

13.2 Declaration on Storm Water Drainage Systems including Flood Protection Measures

13.2.1 Upon obtaining the Temporary Occupation Permit (TOP), the Developer/Owner/Managing Agent/ MCST/ Town Council shall make annual declarations and submissions for the following storm water drainage systems including flood protection measures via PUB website –Business & Professional (B&P) Portal:

Submission Requirements	Type of Developments			
	Critical Infrastructure (CI) / Special Facilities	Key Infrastructure (KI)	Developments with direct / indirect linkage to underground special facilities	Industrial, Institutional, Commercial and Multi-Unit Residential Developments
Type of flood protection measures (Any of the following)	a) Flood Barrier (manual or automated type) b) Pumped Detention Tank c) Pumped Drainage System			
Type of documents to be submitted annually together with the declaration for records	An official letter with proper company letterhead endorsed by authorised representative from Developer / Owner / Managing Agent / MCST / Town Council declaring that the stormwater drainage system including flood protection measures within the premises are regularly inspected, maintained and kept in proper order.			
	Flood barrier: i. Automated flood barrier - Certificate of inspection endorsed by PE/QP (Civil/ Mechanical) ii. Manual flood barrier - Inspection & servicing report (e.g. on-site leak test) by maintenance contractors iii. Site layout plans indicating location(s) with flood barriers and photographs of flood barriers Pumped Detention Tank: i. Inspection & servicing report by maintenance contractors (i.e. maintenance records for pumps, level control system, cleaning and desilting records for tank and pump sump) Pumped Drainage System (only applicable for Road /Underground Rapid Transit Tunnels, Portals and Vehicular Underpasses): i. Inspection & servicing report by maintenance contractors (i.e. maintenance records for pumps, level control system, cleaning and desilting records for tank and pump sump)			Do note that if distribution substations (22kV, 6.6kV) are located within your development, the submission requirements shall follow the Key Infrastructure (KI).

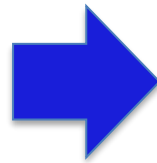
Note: 1) For general development (E.g. Single landed house), annual declaration to PUB is not required.
 2) PUB's Business & Professional Portal : <https://www.eservices.pub.gov.sg>

Sample Template



Annual Declaration on Stormwater Drainage System including Flood Protection Measures

An official letter with proper company letterhead endorsed by authorised representative from Developer/ Owner/ Managing Agent/ MCST/ Town Council declaring that the stormwater drainage system including flood protection measures within the premises are regularly inspected, maintained and in proper order.



Please see the **sample template**.

[COMPANY OFFICIAL LETTERHEAD]

[Date - DDMMYYYY]

Public Utilities Board
Catchment & Waterways Department
Environment Building
40 Scotts Road, #7-01
Singapore 228231

Dear Sir/Madam,

Subject: Annual Declaration on Stormwater Drainage System including Flood Protection Measures implemented within our premises

I, [Full Name], in my capacity as [Position] of [Company Name], hereby declare that the stormwater drainage system and flood protection measures (e.g. flood barriers, pumped detention tank and pumped drainage system) within our premises at [Full Address] are regularly inspected, maintained, and kept in proper working order.

We hereby confirm that:

- ☐ The entire stormwater drainage system within the above-mentioned premises have been regularly inspected and maintained.
- ☐ *Automated Flood barrier(s) implemented within the above-mentioned premises have been regularly inspected by PE(Civil/Mechanical).
- ☐ *Manual Flood barrier(s) implemented within the above-mentioned premises have been regularly inspected by qualified maintenance contractor.
- ☐ All pumps, level control system and any other ancillaries for *Pumped Detention Tank(s) implemented within the above-mentioned premises have been regularly inspected and maintained (including cleaning/desilting of tank) by qualified maintenance contractor.
- ☐ All pumps, level control system and any other ancillaries for *Pumped Drainage System implemented within the above-mentioned premises have been regularly inspected and maintained (including cleaning/desilting of sump) by qualified maintenance contractor.

*Note: *Please tick ✓ where is applicable to your premises.*

We understand the importance of maintaining these systems in proper order, to prevent flooding and protect our property. We are committed to continuing this regular inspection & maintenance regime and will carry out immediate rectification works if any issues arise.

If you require any further information or have any questions, please do not hesitate to contact me.

Yours faithfully,

[Your Signature]

[Your Full Name]
[Your Position]
[Your Company Name]
[Contact Information]

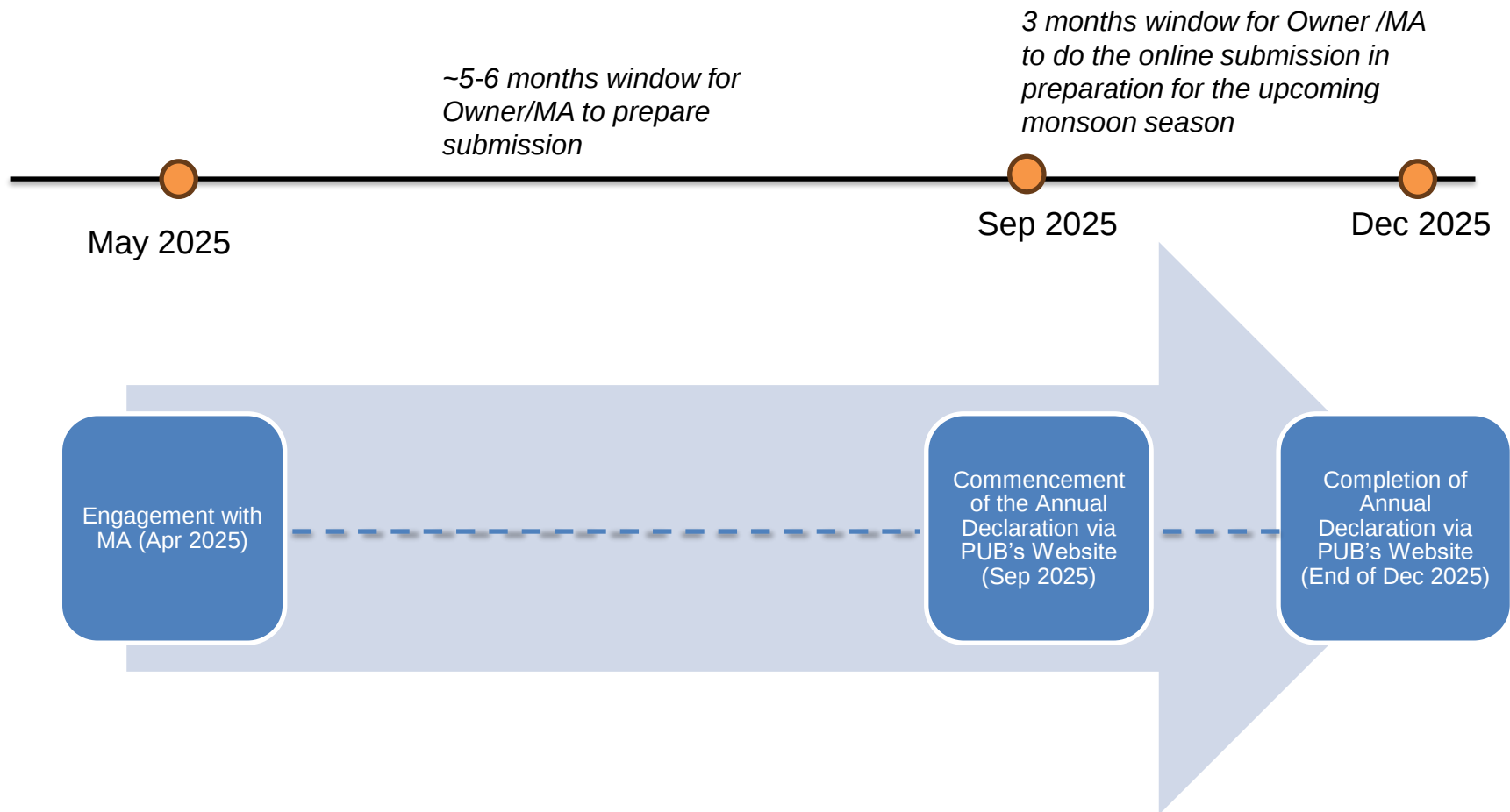
Submission Requirements for Annual Declaration

- Based on Type of Developments

Type of Developments	Definition	Examples
Critical Infrastructures (CI) /Special Facilities*	Physical infrastructure and assets that are vital to the continued delivery of the essential services that Singapore relies on, the loss or compromise of which would lead to a debilitating impact on security, economy or public health and safety	• Rapid Transit systems • Port/aviation facilities • Underground road networks • Power generation plants • Healthcare with A&E services • Gas transmission/ receiving station • Transmission substations • Exchange or central office used for telecommunication purpose
Key Infrastructures (KI)*	Infrastructures that falls outside the definition of a critical infrastructure, but are identified by agencies to be important to agencies' function	• Distribution substations (22kV, 6.6kV) • Prison complexes • Bus interchange and depots • Neighbourhood police centres
Industrial, Institutional, Commercial and Multi-Unit Residential Developments	Developments where commercial activity takes place, or buildings with more than one dwelling unit	• Residential Development (HDB, Condominium, Serviced Apartments and etc) • Mixed Developments • Hotels • Schools • Commercial Buildings • Office Buildings • Industrial Buildings

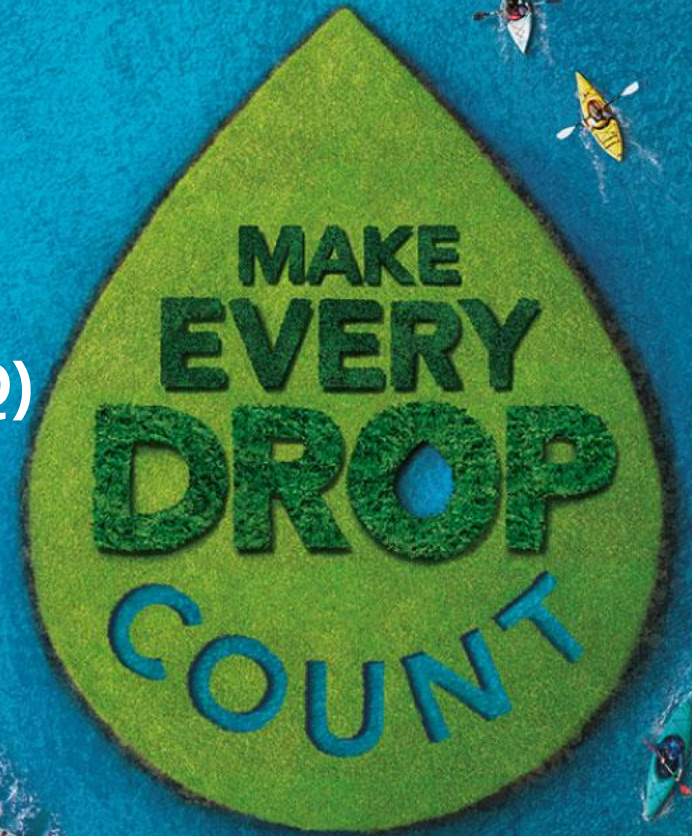
**Appended list of examples is not exhaustive.*

Important Timeline to note



- Upon obtaining TOP, Developer/Owner/ Managing Agent/MCST/Town Council shall make annual declaration to PUB for stormwater drainage system via PUB's Business & Professional Portal (<https://www.eservices.pub.gov.sg>).
- Declaration exercise to be carried out 12 months from TOP Date/ last declaration date and between Sept to Dec each year for subsequent years.

Frequently Asked Questions (FAQ) : Post-TOP Annual Declaration



FAQ for Post TOP Annual Declaration

Q1. What is the objective of the annual declaration ?

A1. The objective of the email is to remind Developer/Owner/Managing Agent/MCST to ensure the storm water drainage systems including flood protection measures within their premises are inspected and maintained regularly and kept in proper order. Upon obtaining the Temporary Occupation Permit (TOP), the Developer/ Owner/ Managing Agent/ MCST/ Town Council shall make annual declarations and submissions to PUB. All developments (except for “General development”) implemented with any of the following flood protection measures will requires to make annual declaration to PUB.

- Automated/Manual flood barriers
- Pumped detention tanks
- Pumped drainage system

Q2. What am I required to do for inspections of the storm water drainage system or flood protection measures?

A2. The inspection shall include but not limited to the following:

Flood Protection Measures	Inspection /Test
Flood Barrier	Check that flood barrier is in good working condition with no leak. On-site leak test or light penetration test or any other equivalent test complying with relevant international standards
Pumped detention tanks and/or pumped drainage system	Test that pumps and level sensors are in working condition. Check that tank and sump is free of silt/debris.

FAQ for Post TOP Annual Declaration

Q3. How should I carry out the inspection?

A3. Depending on the type of flood protection measures, Owner can engage a Professional Engineer (PE)/ Qualified Person (QP) to carry out the inspection or engage a competent service provider to carry out the inspection .

Flood Protection Measures	Inspection/ Test
Flood Barrier	i. Automated flood barrier - Certificate of inspection endorsed by PE/QP (Civil/ Mechanical) ii. Manual flood barrier - Inspection & servicing report (e.g. on-site leak test) by qualified maintenance contractors
Pumped detention tanks and/or pumped drainage system	Inspection & servicing report by qualified maintenance contractors (i.e. maintenance records for pumps, level control system, cleaning and desilting records for tank and pump sump)

Q4. Who is a QP? Who can I engage to carry out the inspection for automated flood barrier?

A4. A Qualified Person (QP) is a person who is registered as an Architect with the Board of Architects (BOA) or a Professional engineer (PE) with the Professional Engineers Board (PEB); and has a valid practicing certificate issued by the BOA or PEB respectively. The owner may engage the relevant QPs to carry out the inspection. List of PEs can be found at www.peb.gov.sg

FAQ for Post TOP Annual Declaration

Q5. When should the inspection be carried out?

A5. Please note that there should be a proper inspection & maintenance regime in place for the stormwater drainage system including flood protection measures that are implemented within the premises. For annual declaration to PUB, inspection should be carried out annually to facilitate this exercise which usually commence from September.

Q6. What is a pumped detention tank?

A6. It is a solution for development site area $\geq 0.2\text{ha}$, designed to temporarily store the stormwater runoff within the development and discharge at a regulated /controlled flow rate into the public roadside drain via gravity or pumped system. Pumped detention tank usually comprises an underground tank and pumps.

Q7. What is a pumped drainage system?

A7. A solution to serve development with basement /underground facilities where rainwater can enter due to any openings to sky. Although the system is similar to pumped detention tank which comprises a holding sump/tank and pumps, but the design intention and purpose are different. The scale (i.e. size of the system) is also very different.

FAQ for Post TOP Annual Declaration

Q8. My building was built many years ago (past TOP already). Do we still need to conduct the inspection(s) and submit the online declaration?

A8. Yes, as long as your building/development has implemented any of these following type of flood protection measures : Flood barriers, pumped detention tank and/or pumped drainage system (only applicable for Road /Underground Rapid Transit Tunnels, Portals and Vehicular Underpasses).

Q9. Who should bear the cost for engaging a QP/PE or a competent service provider ?

A9. Developer/Owner/Managing Agent/MCST/Town Council is to engage a QP/PE or competent service provider at their own cost to conduct the inspection within their premises.

Q10. Do I have to pay a fee for the declaration?

A10. No, PUB does not charge any fee for the declaration.

FAQ for Post TOP Annual Declaration

Q11. If we are unsure if the development has flood barrier, pumped detention tank or pumped drainage system, can PUB send someone down (to check on the development) to verify if we need to do the declaration?

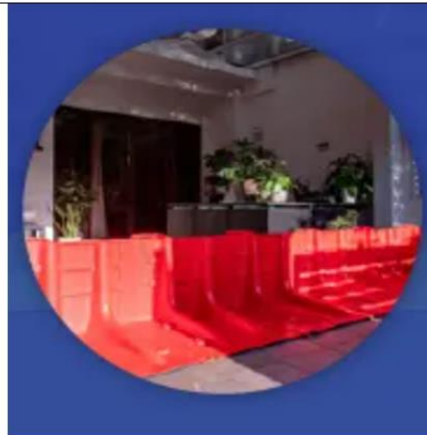
A11. The Developer/Managing Agent/MCST/Town Council should have/keep a copy of the as-built plans. Alternatively, you could purchase the building plans from BCA to determine if there is an automated flood protection measures or pumped detention tank or pumped drainage system.

Q12. What type of flood barrier will require submission?

A12. All flood barriers (automatic/manual) except portable type and inflatable flood bag will require submission.



Inflatable Flood Bag – A compact, lightweight alternative to sandbags that inflates upon contact with water.



Portable Flood Barrier – A modular, self-anchoring barrier that creates a dam to contain or divert floodwaters on firm surfaces.



FAQ for Post TOP Annual Declaration

Q13. Do I need to do the declaration if I do not have any flood barrier, pumped detention tank or pumped drainage system?

A13. No, declaration is not necessary.

Q14. Do I need to do the declaration if my single landed house (i.e. “General Development”) has flood barrier ?

A14. No, declaration is not necessary.

Q15. Is it mandatory to submit the declaration?

A15. Yes, Developer/Owner/Managing Agent/MCST/Town Council are required to declare, annually, that they have carried out the inspection of Storm Water Drainage Systems (including flood protection measures).

Q16. Who can do the declaration? Must it be a PE/QP?

A16. No. The declaration can be done by the Developer /Owner or Managing Agent /MCST /Town Council.

Q17. Can the annual declaration be done in hard copy or other means?

A17. No. The annual declaration shall only be done online via our PUB portal at <https://www.eservices.pub.gov.sg>. Please note the upload file size limit is 50MB per submission.

FAQ for Post TOP Annual Declaration

Q18. What happen if I don't carry out the inspection and make a declaration?

A18. It is mandatory to conduct the inspection and make the declaration. PUB will also continue to send reminders until the declaration is made.

Q19. How can I find out whether my development is classified under Critical infrastructure or Key infrastructure ?

A19. Please check with the Developer/Owner. In the event, there is no relevant information, check with PUB via email: WONG_Hock_Hua@pub.gov.sg or Vickramathithaan_VEGADASALAM_BATHI@pub.gov.sg.

Q20. If my development is connected to underground MRT station (e.g. Orchard MRT or Raffles Place MRT) via underpass, does it classify under “Developments with direct /indirect linkage to underground special facilities” ?

A20. Yes, it is classified under “Developments with direct /indirect linkage to underground special facilities” .

FAQ for Post TOP Annual Declaration

Q21. If my development is connected to aboveground MRT station (e.g. Yishun MRT or Jurong MRT) via underpass, does it classify under “Developments with direct /indirect linkage to underground special facilities” ?

A21. No. The annual declaration is only applicable if your development is connected to underground MRT station.

Q22. Who can I contact in PUB if I have query on this annual declaration exercise ?

A22. Please contact us via email: [WONG Hock Hua@pub.gov.sg](mailto:WONG_Hock_Hua@pub.gov.sg) or [Vickramathithaan VEGADASALAM BATHI@pub.gov.sg](mailto:Vickramathithaan_VEGADASALAM_BATHI@pub.gov.sg).

Thank You

