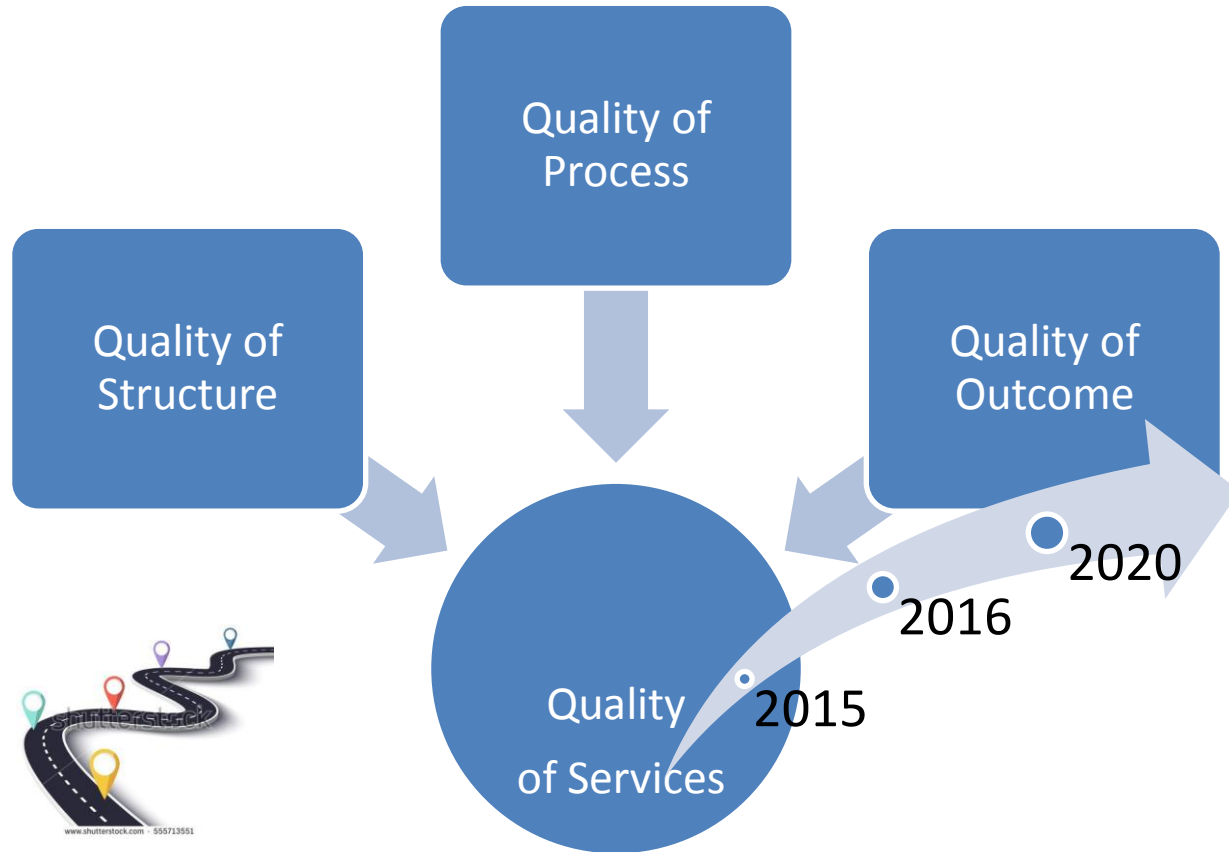


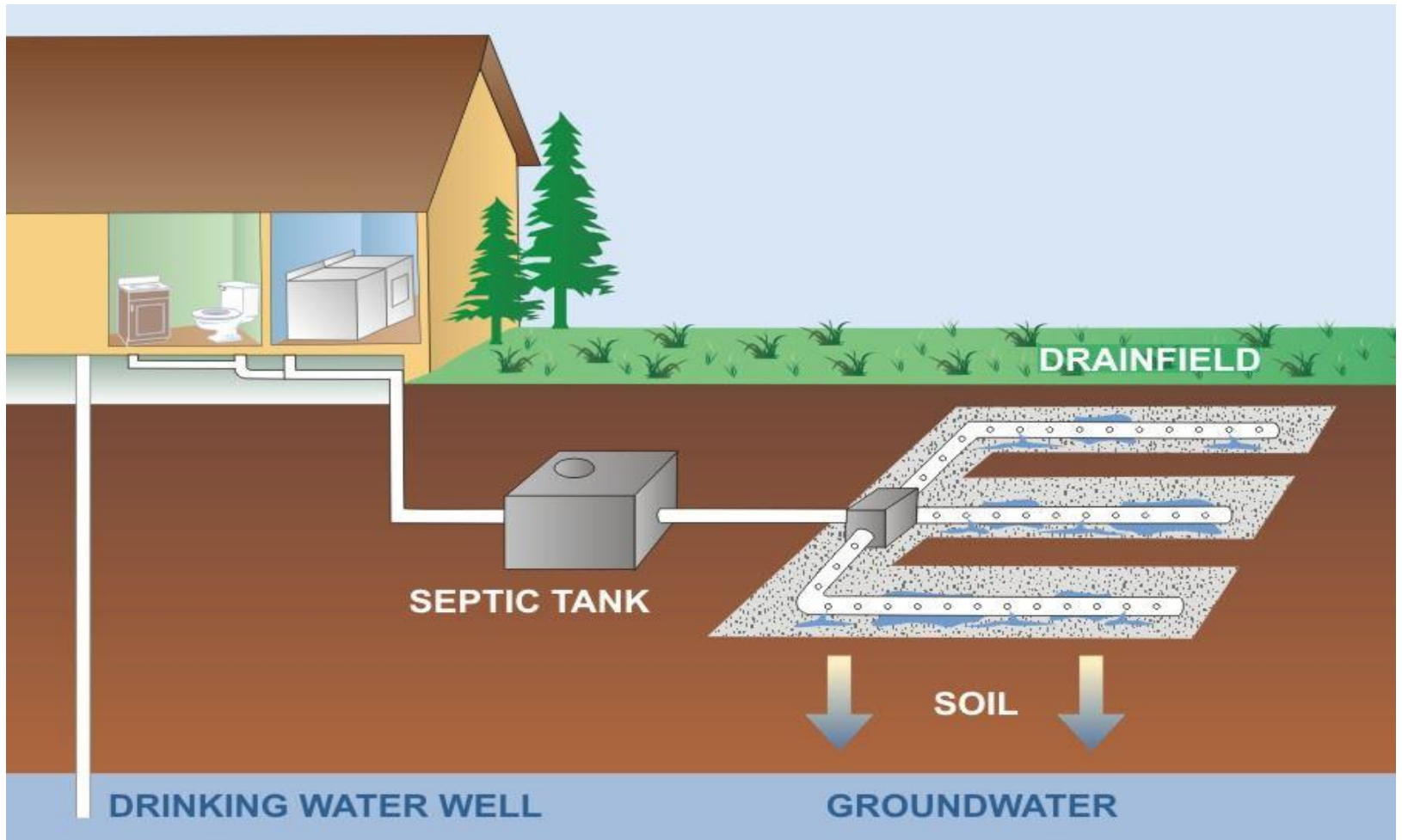
# Road Safety and Septic Systems



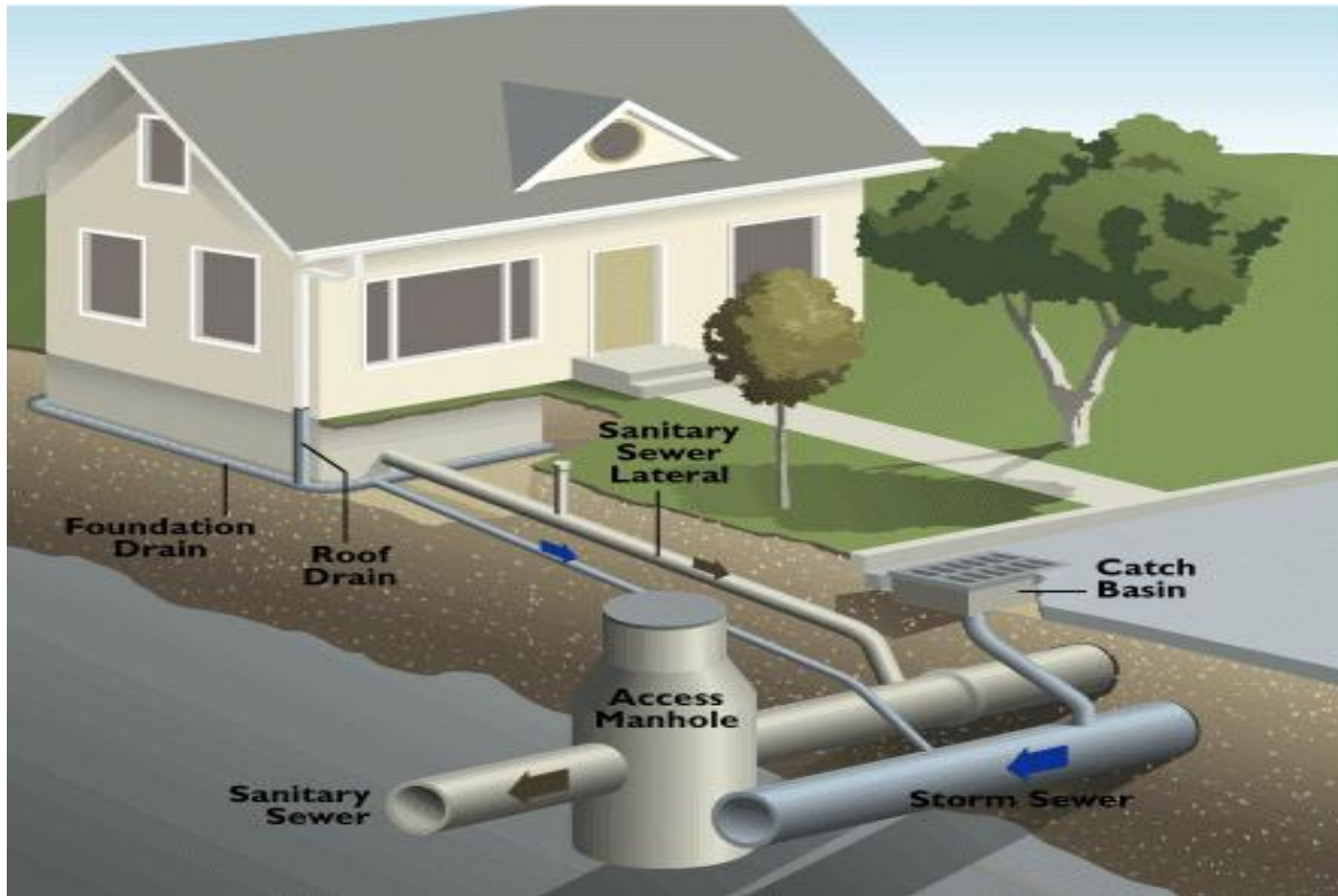
# Road Safety and Septic Systems



# Road Safety and Septic Systems



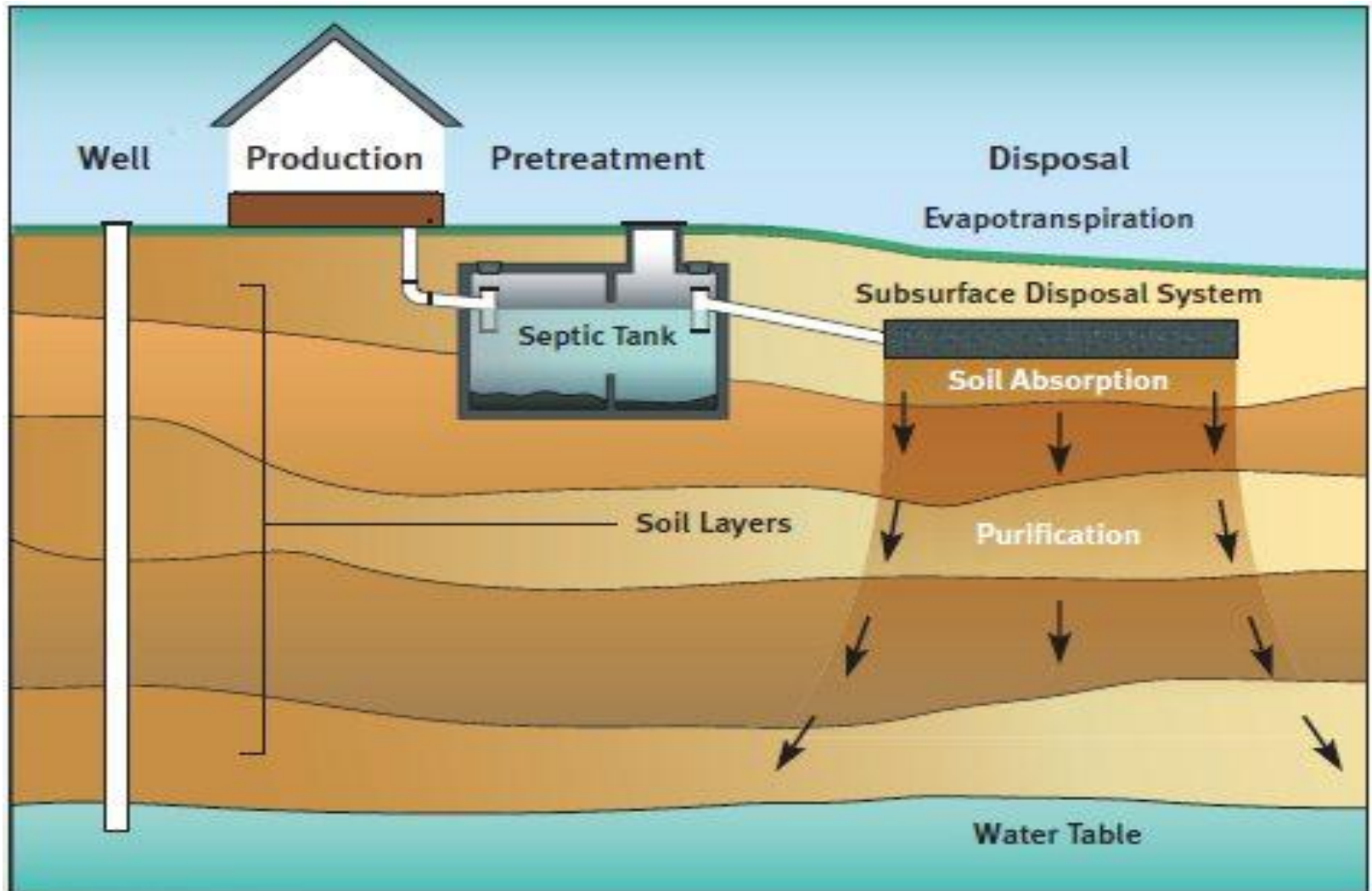
# Road Safety and Septic Systems



# Road Safety and Septic Systems



# Road Safety and Septic Systems



# Road Safety Septic System App

**Form Serial No:**

**Date:**

**Name of road system or building or facility:**

**Sewer System ID or No:**

**Name of inspecting company:**

**Annual Maintenance Contract No (if relevant):**

Feedback  
Photograph

With GPS turned on

**Nature of inspection or assessment:**

- ☐ **Photograph taken and sent to municipal civic body** (for accountability or to get authorization before cleaning or maintenance to prevent accidents and other incidences)
- ☐ **Condition of lid**
- ☐ **Condition of ground water nearby**
- ☐ **Condition of air vent (by nature of design)**
- ☐ **Location analysis** (there is a clear demarcation with design for power supply or lighting, with design for water supply for cleaning, and provision of adjoining site for disposal of sullage)
- ☐ **Plan for emergency services** (whom to contact and what is to be done if there is an accident or health hazard)
- ☐ **Associated Inspection Chambers or Manholes**
- ☐ **Connection to municipal sewer lines**

# Road Safety Septic System App

## Evaluation of Catabolic design:

- [ ] **Conduct Analysis of region** (geology, soil, surface, hydrology, water resources)
- [ ] **Check for Right size of drain field**
- [ ] **Check for proper molecular diffusion and/or capillary fringe** (for right catabolizing of dissolved organic compounds)
- [ ] **Check Quality of bio-filter** (this prevents clogging of drain field and hazards if septic system is in a higher density residential construction region, or where there are swimming pools, or gardens or land for trees)
- [ ] **Check for bio-film deposit on the walls of sewer system and drench field trenches**
- [ ] **Check and control of runoffs from roadways or sidewalks** (from entering the septic system)

# Road Safety Septic System App

## Evaluation before cleaning or maintenance:

- [ ] **Check for odors**
- [ ] **Check for visible sheen**
- [ ] **Check for pollutant concentration levels** (loading)
- [ ] **Expose sewage to open air through vent** (to cause increased composting before cleaning or maintenance)
- [ ] **Add incompletely digested scum** (to improve bio-activity)
- [ ] **Check for minimum sewage retention and settling time** (at the time of preventive maintenance)
- [ ] **Force sewage flow** (if choking is a problem)
- [ ] **Perform vacuuming** (if severe choking is a problem)

## Health hazard or risk inspection or assessment:

- [ ] **Percolation test** (to establish suitability of drain field soil to receive effluent)
- [ ] **Properly functioning drain field** (as per standards) to hold and deactivate pathogens before they leave the drain field soil)
- [ ] **Hydrogen sulfide odors or iron bacteria** found in nearby wells or surface water)
- [ ] **Signs of snow covering ground** in relevant cities or regions (as this can reduce cross-sectional area available for flow or evaporation)
- [ ] **Nearby collection of insoluble particles** (due to improper design of vertical distance that is required between effluent level in the disposal trench and the water level where the effluent is leaving drain field to flow through porous soil)
- [ ] Adequate usage of disinfectants **prior to surface disposal of municipal sewage**
- [ ] Controlled usage of disinfectants **in septic tank** (as it can affect quality of tank and soil ecosystem)

# Road Safety Septic System App

## Operations or maintenance:

- [ ] **Dosing or drainage schedule** (where sewage effluent is routed to a different system)
- [ ] **Precautions or restricted checklist** (reducing uncontrolled inflow of chlorinated solvents, sanitizing or deodorizing chemicals, laundry bleach, runoffs containing petroleum products)
- [ ] **Recommendations checklist** (proper use of leachates in runoffs or overflow regions where there may be hazards sometimes even due to heavy rainfall. However leachates can be genotoxic so need to be used carefully)
- [ ] **On-site vermi-filter sewage treatment solution** (to improve performance and overall effectiveness)

## Additional nature of inspection or assessment:

- [ ] Easy to service model
- [ ] Collection chambers below ground level (as per standards)
- [ ] Slopes given to pipelines so sewage is conveyed by gravity
- [ ] Safety from slipping, tripping
- [ ] Safety from contamination hazards
- [ ] Safety from moisture hazards to surrounding structures

# Road Safety Septic System App

**Reason for inspection or assessment (Tick as applicable):**

☐ Health hazards suspected

☐ Complaints

☐ Emergency call or disaster

☐ Aging

☐ Preventive maintenance

☐ Routine assessment

**Complaint No:**

**Priority Complaint No:**

**Time taken:**

**Record of inspection:**

Date	Nature of inspection	Details of inspection	Next scheduled date	Done by

# Road Safety Septic System App

## Record of condition:

Date	Condition	Details of condition	Analysis of condition	Plan of action	Done by

## Record of repairs or replacements:

Date	Nature of repairs or cleaning	Details of repairs or cleaning	Cost of repairs or cleaning	Reordering Of material and spares	Done by

# Road Safety Septic System App

- **Record of performance (Tick as applicable):**
- ☐ No complaints ☐ Quality & drainage proper and adept
- ☐ Occasional complaints
- ☐ Recent complaints
- ☐ Complaints since a long time
- ☐ Rising number of complaints
- 
- **Current problem or complaint or observation?**
- 
- **Whether subsequent actions were taken?**

# Road Safety Septic System App

**Whether Corrective Action was outlined? ( Yes/No)**

- **Details:**

- **Whether Preventive Action is planned? ( Yes/No)**

- **Details:**

- **Whether Grievance Redressal was necessary? ( Yes/No)**

- **Details:**

- **What will be done to prevent re-occurrence of problem or issue?**