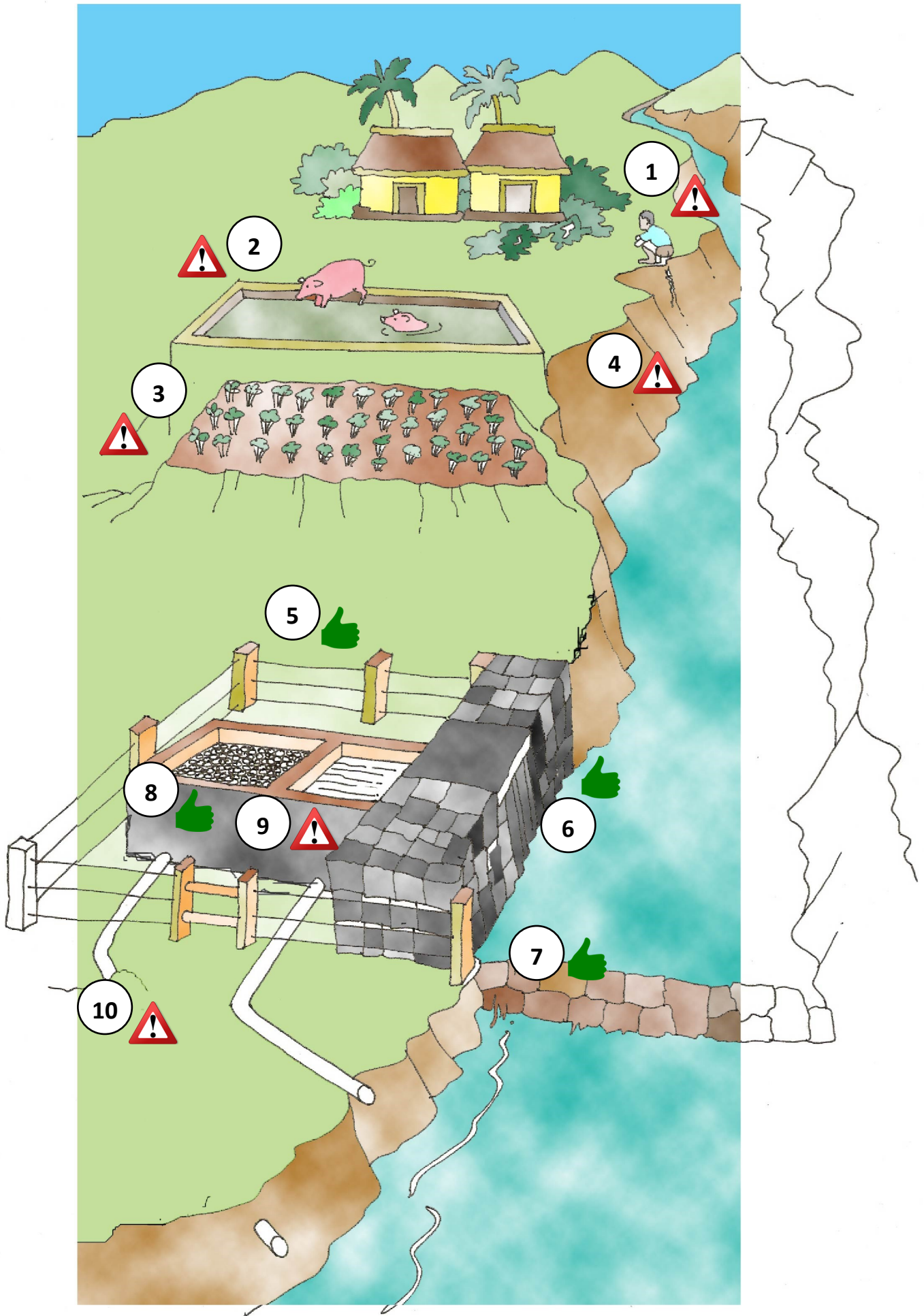












SURFACE SOURCE AND ABSTRACTION



SURFACE SOURCE AND ABSTRACTION

Risk Assessment Questions

Risk =  **Control Measure** = 

-  1. **HUMAN WASTE** - Are there any human houses/toilets/activities upstream, polluting the source? Y/N
-  2. **ANIMAL WASTE** - Are there any farm animals upstream, polluting the source? Y/N
-  3. **FARMING WASTE/OTHER POLLUTION** - Is there any crop production/industrial pollution/waste water discharges upstream? Any algae present at source? Y/N
-  4. **DIRT/DEBRIS** - Is there a risk of landslide/mudflow (causing deforestation)/soil erosion in the catchment area? Y/N
-  5. **FENCING** - Is the intake installation unfenced? Y/N
-  6. **INLET SCREEN** - Is the intake unscreened? Y/N
-  7. **DAM** - Does the abstraction point lack a minimum head device (e.g. dam)? Y/N
-  8. **WATER TREATMENT** - Does the system **not** have any method of water treatment? Household Water Treatment and Storage (HWTS) is a good and valid method. Y/N
-  9. **INTAKE BROKEN/DIRTY** - Is the abstraction structure dirty or leaking? Y/N
-  10. **HIGH/LOW PRESSURE IN PIPES** - Is the flow uncontrolled? Y/N

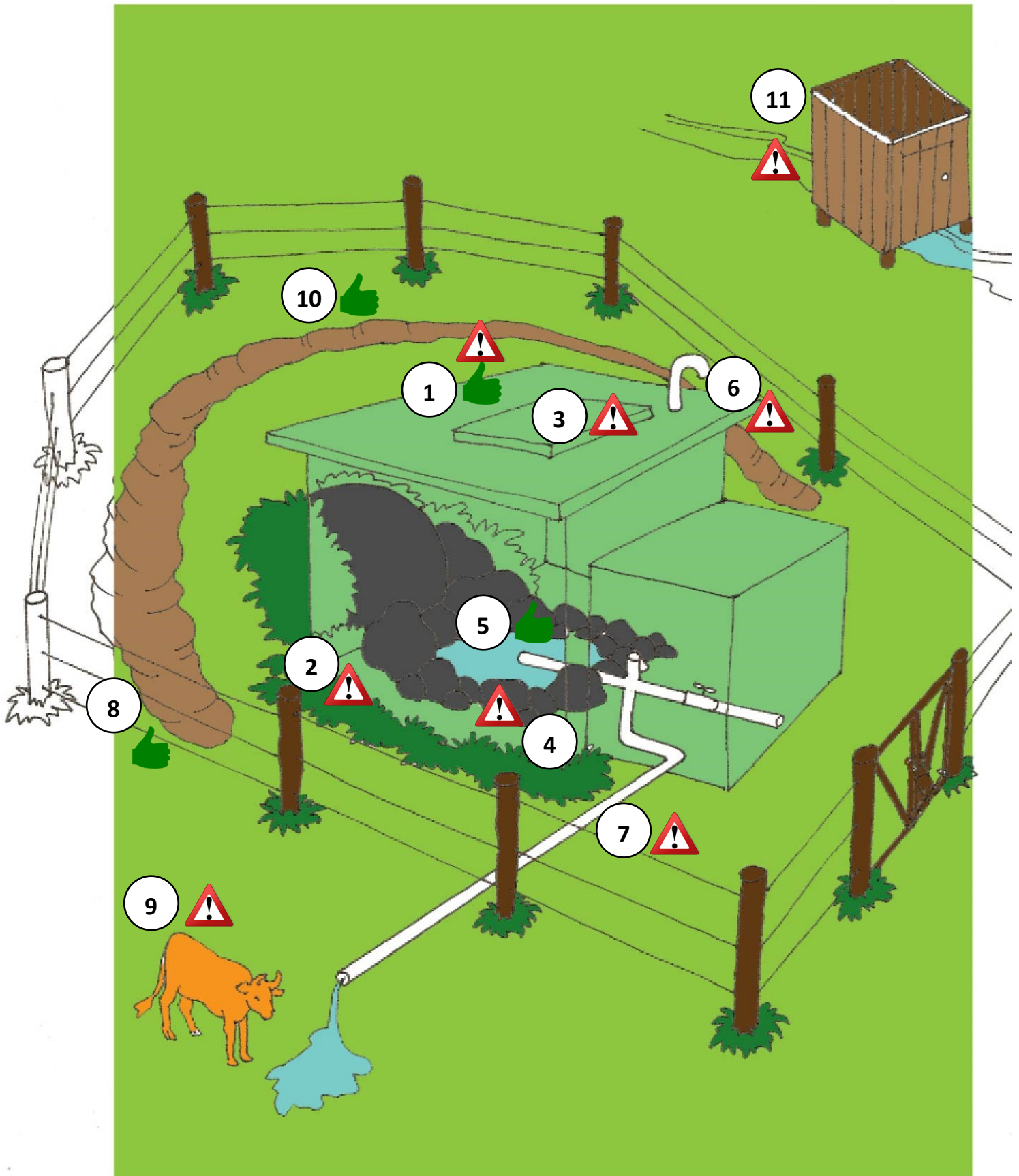
Total score of risk:/10

Contamination Risk Score: 9-10 = Very High; 6-8 = High;

3-5 = Intermediate; 0-2 = Low

REMEMBER TO CHECK THE CLIMATE AND DISASTER RISK SURVEY














PROTECTED SPRING SOURCE



PROTECTED SPRING SOURCE

Risk Assessment Questions

Risk =  **Control Measure** = 

-  1. **SURFACE WATER CONTAMINATION / SPRING BOX (Clean with cover, min head device, overflow, and wash out valve)** - Y/N
 Is the spring source **unprotected** by stone or concrete wall, or spring box and therefore open to surface contamination?
-  2. **SURFACE WATER CONTAMINATION / LEAKAGE** - Is the Y/N
stonewall protecting the spring source faulty?
-  3. **DIRT/DEBRIS** - If spring box is present, is the cover dirty? Y/N
-  4. **DIRT/DEBRIS** - Does the spring box contain contaminating silt Y/N
or animals?
-  5. **SCREEN/MESH** - Is the outlet pipe **unscreened/unmeshed**? Y/N
-  6. **DIRT/DEBRIS** - If there is an air vent in the stone wall, is it Y/N
unclean or unsanitary?
-  7. **DIRT/DEBRIS / OVERFLOW** - If there is an overflow pipe, is it Y/N
unclean or unsanitary?
-  8. **FENCING** - Is the area around the spring unfenced? Y/N
-  9. **ANIMAL WASTE** - Can animals have access to within 10m of Y/N
the spring source?
-  10. **DIVERSION DITCH** - Does the spring lack a surface water Y/N
diversion ditch above it?
-  11. **HUMAN WASTE** - Are there any toilets uphill of the spring? Y/N
-  12. **FARMING WASTE/OTHER POLLUTION** - Is there any crop Y/N
production/industrial pollution/waste water discharges
upstream? Any algae present at source?

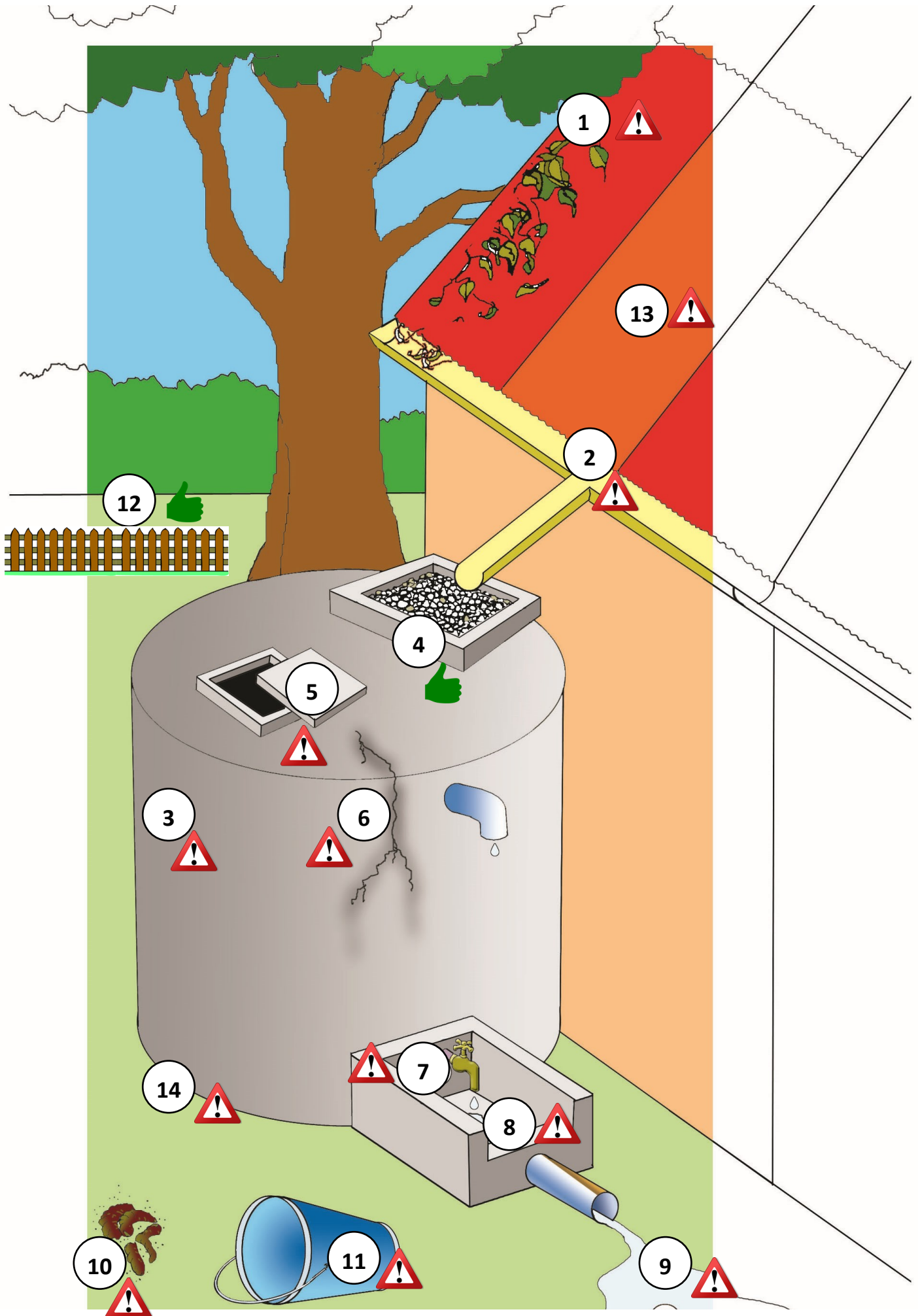
Total score of risk:/12

Contamination Risk Score: 10-12 = Very High; 6-9 = High;

3-5 = Intermediate; 0-2 = Low

REMEMBER TO CHECK THE CLIMATE AND DISASTER RISK SURVEY















RAINWATER COLLECTION AND STORAGE



RAINWATER COLLECTION AND STORAGE

Risk Assessment Questions

Risk =  **Control Measure** = 

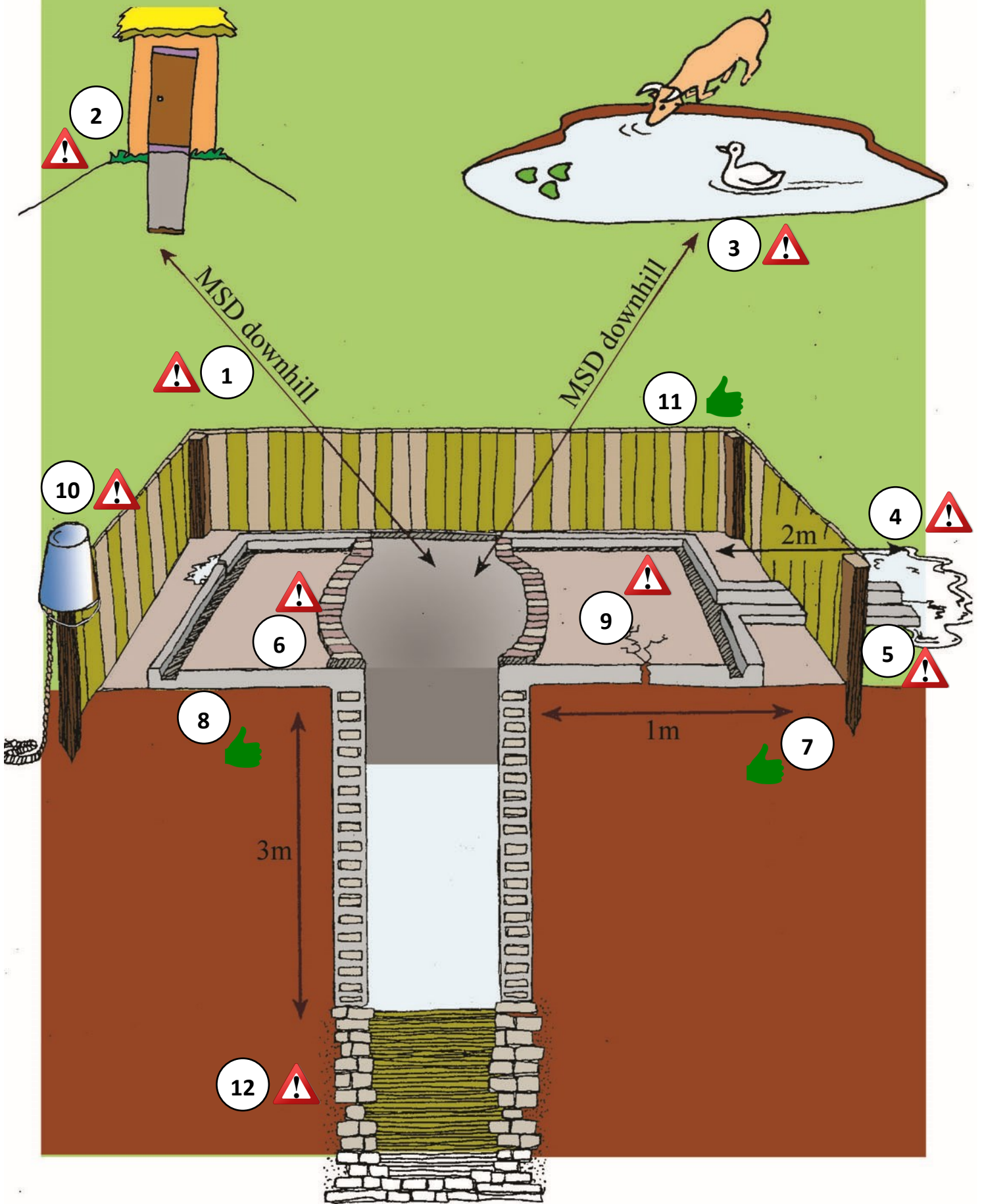
-  1. **WASTE/DIRT/DEBRIS** - Is there any visible contamination of the roof catchments area (plants, dirt, or excreta)? Y/N
-  2. **WASTE/DIRT/DEBRIS** - Are the guttering channels that collect water dirty? Y/N
-  3. **WASTE/DIRT/DEBRIS** - Is the inside of the rainwater collection tank dirty or filled with dirt and debris? Y/N
-  4. **INLET MESH** - Does the tank inlet not have any mesh sieve or fine gravel? Y/N
-  5. **WASTE/DIRT/DEBRIS** - Is there any other point of entry to the tank that is not properly covered? Y/N
-  6. **SURFACE WATER INGRESS** - Are there any cracks on the walls or top of the tank that could let water in? Y/N
-  7. **WASTE/DIRT/DEBRIS, WATER LOSS** - Is the tap leaking/faulty? Y/N
-  8. **WASTE/DIRT/DEBRIS** - Is the concrete floor under the tap dirty? Y/N
-  9. **ANIMAL ACCESS** - Is the water collection area inadequately drained? Y/N
-  10. **WASTE/DIRT/DEBRIS** - Is there any source of pollution around the tank or water collection area (e.g. excreta, trees, debris)? Y/N
-  11. **WASTE/DIRT/DEBRIS** - Is a bucket in use and left in a place where it may become contaminated? Y/N
-  12. **FENCING** - Is the area around the tank unfenced? Y/N
-  13. **WATER LOSS/DROUGHT** - Is the rainwater collection system leaking or damaged so that water is not being collected? Y/N
-  14. **FLOOD/DAMAGE** - Is the tank foundation soil with no anchors? Is tank below the flood water level? Y/N

Total score of risk:/14

Contamination Risk Score: 11-14 = Very High; 8-10 = High;
3-7 = Intermediate; 0-2 = Low

REMEMBER TO CHECK THE CLIMATE AND DISASTER RISK SURVEY

OPEN DUG WELL















MSD - Minimum Safe Distance

OPEN DUG WELL

Risk Assessment Questions

Risk =  **Control Measure** = 

-  1. **HUMAN WASTE** - Is there a toilet within 10m of the well? Y/N
-  2. **HUMAN WASTE** - Is the nearest toilet on higher ground than the well? Y/N
-  3. **ANIMAL WASTE/DIRT/DEBRIS** - Is there any other source of pollution (e.g. animal excreta, rubbish) within 10m of the well? Y/N
-  4. **ANIMAL ACCESS** - Is the drainage poor, causing non-movement water within 2m of the well? Y/N
-  5. **SURFACE WATER INGRESS** - Is there a faulty drainage channel? Is it broken, permitting ponding? Y/N
-  6. **SURFACE WATER INGRESS** - Is the wall (parapet) around the well cracked, or too low, allowing surface water to enter? Y/N
-  **THINK ABOUT FLOOD LEVELS TOO** Y/N
7. **CONCRETE APRON** - Is the concrete floor less than 1m wide around the well? Y/N
-  8. **SEALED WELL LINING** - Are the walls of the well inadequately sealed at any point for 3m below ground? Y/N
-  9. **SURFACE WATER INGRESS** - Are there any cracks in the concrete floor around the well, which could permit water to enter the well? Y/N
-  10. **WASTE/DIRT/DEBRIS** - Are the rope and bucket left in such a position that they may become contaminated? Y/N
-  11. **FENCING** - Does the installation require fencing? Y/N
-  12. **LACK OF WATER/DROUGHT** - The well is located where the water table is low?

Total score of risk:/12

Contamination Risk Score: 10-12 = Very High; 6-9 = High;














3-5 = Intermediate; 0-2 = Low

REMEMBER TO CHECK THE CLIMATE AND DISASTER RISK SURVEY

COVERED DUG WELL WITH HANDPUMP

Risk Assessment Questions

Risk =  **Control Measure =** 

-  1. **HUMAN WASTE** - Is there a toilet within 10m of the well? Y/N
-  2. **HUMAN WASTE** - Is the nearest toilet on higher ground than the well? Y/N
-  3. **ANIMAL WASTE/DIRT/DEBRIS** - Is there any other source of pollution (e.g. animal excreta, rubbish) within 10m of the well? Y/N
-  4. **ANIMAL ACCESS** - Is the drainage poor, causing non-movement water within 2m of the well? Y/N
-  5. **SURFACE WATER INGRESS** - Is there a faulty drainage channel? Is it broken, permitting ponding? Y/N
-  6. **FENCING** - Is the wall or fencing around the well inadequate, allowing animals in? Y/N
-  7. **CONCRETE APRON** - Is the concrete floor less than 1m wide around the well? Y/N
-  8. **ANIMAL ACCESS** - Is there ponding on the concrete floor around the hand pump? Y/N
-  9. **SURFACE WATER INGRESS** - Are there any cracks in the concrete floor around the well, which could permit water to enter the well? **THINK ABOUT FLOOD EVENT** Y/N
-  10. **SURFACE WATER INGRESS** - Is the hand pump loose where it is attached to the base allowing water to enter the casing or pipes? Y/N
-  11. **WASTE/DIRT/DEBRIS** - Is the cover of the well unsanitary? Y/N
-  12. **SEALED WELL LINING** - Are the walls of the well inadequately sealed at any point for 3m below ground? Y/N
-  13. **LACK OF WATER/DROUGHT** - The well is located where the water table is low? Y/N

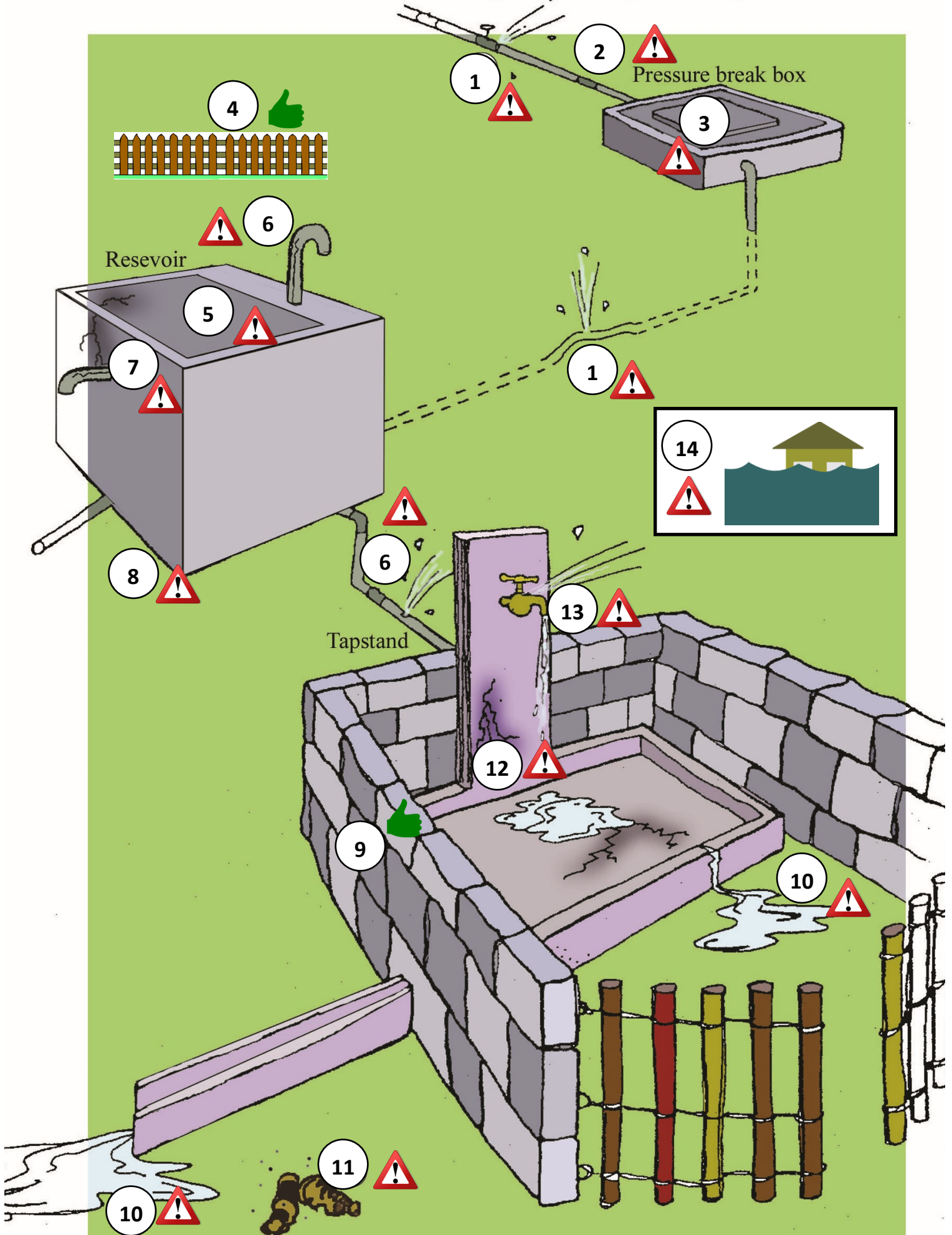
Total score of risk:/13

Contamination Risk Score: 10-13 = Very High; 6-9 = High;

3-5 = Intermediate; 0-2 = Low

CHECK CCA/DRR SURVEY

PIPED DISTRIBUTION






PIPED DISTRIBUTION






Risk Assessment Questions

Risk =  **Control Measure** = 







Piping within the system

-  1. **WASTE/DIRT INGRESS, WATER LOSS** - Is there any point of leakage between source and reservoir? Y/N
-  2. **WATER LOSS** - Is piping exposed and could be damaged? Y/N
-  3. **WATER LOSS** - Is head loss greater than 50m in system? Y/N

If there is a reservoir/storage tank:

-  4. **FENCE** - Is the area around the tank unfenced (or fencing incomplete)? Y/N
-  5. **WASTE/DIRT INGRESS** - Is the inspection cover/tank dirty? Y/N
-  6. **WASTE/DIRT INGRESS** - Are any air vents dirty? Y/N
-  7. **SURFACE WATER INGRESS** - Is the reservoir cracked or leaking? Y/N
-  8. **FLOOD/DAMAGE** - Is the tank foundation soil with no anchors? Is tank below the flood water level? Y/N

If there is a distribution system with tap stands:

-  9. **FENCE** - Is the area around the tap stand unfenced (or fencing incomplete)? Y/N
-  10. **ANIMAL ACCESS** - Does water accumulate near the tap stand (requires improved drainage channel)? Y/N
-  11. **HUMAN WASTE** - Is there human excreta within 10m of the tap stand? Y/N
-  12. **SURFACE WATER INGRESS** - Is the tap stand cracked or eroded? Y/N
-  13. **ANIMAL ACCESS, WATER LOSS** - Does the tap leak? Y/N
-  14. **FLOOD/DAMAGE** - Are any parts of the system located below a flood level on poor structures and unsecured? Y/N

Total score of risk:/14

Contamination Risk Score: 11-14 = Very High; 8-10 = High;
3-7 = Intermediate; 0-2 = Low

REMEMBER TO CHECK THE CLIMATE AND DISASTER RISK SURVEY