

Specimen collection

(AFP, ES)

Collection and forwarding (AFP)

Under 15 Acute Flaccid Paralysis (AFP) Surveillance

- Two stool specimens collected at least 24 hrs apart
- As early as possible (within 14 days of onset of paralysis)
- Adequate volume (one adult thumb size)
- Leak proof container
- Fill the laboratory form properly
- Send to NHL as soon as possible (within 3 days)

Specimens should be kept cold after collection and during shipment to the Lab

Sampling technique (ES)

- Grab sample

(1.5-2 liters of raw sewage is collected at a selected sampling site, either at one point in time or depending on complexity of the sewage network)

- Continuous flow

- Time of collection

(Should be selected based on expected maximum affluent flow from communities, which is often between 6-8 am)

Equipment and supplies for sample collection

- **A clean and dry bucket** fixed to a rope to safely reach the stream of waste water
- **A clean sample collection container** with a volume of 2 litres
- **A clean plastic funnel**
- **Personal protection materials** (mask, gloves, apron, boots)
- **Identification code** and **an information form** indicating the sampling site, sampling time and ID of the person collecting the sample (This information should be recorded before filling the container)
- **Use waterproof marker** for labelling and do not use paper labels that will disintegrate when they get wet, frozen, etc

Equipment and supplies for sample collection cont;

- **Transport container equipped with cold packs** to be used for cold transportation , labelled the name and address of receiving laboratory
- **Zipper bags**
- **Gauze, paper towel** for cleaning potential spills or splashes
- **Surface disinfectant** for cleaning the outside of freshly filled sample containers
- **Disinfectant hand rub** for cleaning potentially contaminated skin

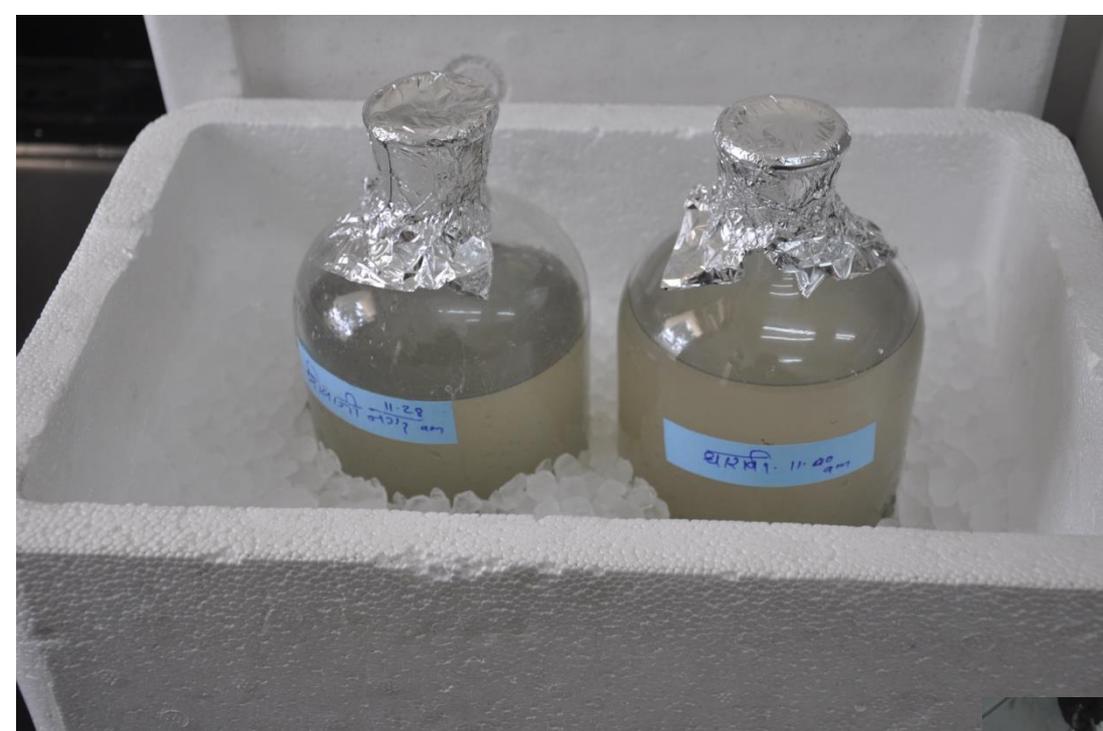


Collection procedure

- To collect raw wastewater, lower the bucket as closely as is safely possible into the mid stream of the wastewater. In open canals samples should be collected from below the water surface
- Fill 1.2 liters of collected materials into the marked sample containers, using a funnel if necessary
- Seal the container (s) tightly, wipe the outer surface with disinfectant, place the container into the labeled zipper bag
- Place the wrapped sample container(s) into the transport container, check the presence of ice packs







Transport of specimens

- Collected samples should be immediately refrigerated and kept cool during transport to arrive at the processing laboratory within 48 hours of collection (Cold chain for sewage samples)
- Laboratory staff should be contacted, provided with timetable for sample collection and given the estimated date and time of arrival of the sample in the laboratory
- Safe handling and transport of the used equipment in Biohazard bag (containment of the hazards)
- Decontamination of equipment and discards

Laboratory request form

For collected Wastewater sample for Environmental Surveillance

(To accompany sample being sent to laboratory for analysis)

Country	ID Code: / /
Name of the site	
Atmospheric temperature at time of sample collection	°C
Type of sewage plant or sewage system	“Open Drain” “Sewage Pump”
Date of sample collection	
Time of sample collection	
Date of receiving sample in MOH/WHO office:	
Date of sending sample to laboratory:	
Name of person who collected sample:	Contact#
Name & Designation of person filling form:	Contact#
Name & Designation of focal person/supervisor:_____	Contact#
Signature:_____	Date:_____
FOR USE BY LABORATORY	
Date of sample received at laboratory:	Day_____Month_____Year_____
Sample Lab. No. _____	
Condotion of sample at receipt:	----Good ----Poor
Name of person receiving sample at laboratory:_____	