Typical agents – Mustard or VX
Decontamination mainly generates chlorinated waste water slurries from hypochlorite bleaching solutions
Aqueous waste phase neutralised to remove chlorine then discharged to sewage drain.
Solid phase disposed to landfill

Typical agents – Anthrax
Decontamination mainly generates chlorinated waste water slurries from hypochlorite bleaching solutions
Aqueous waste phase neutralised to remove chlorine then discharged to sewage drain.
Solid phase disposed to landfill

Typical agents – Colbalt-60 or Iridium-192
Decontamination mainly generates radioactive building materials and rubble
Solid waste packaged in ISO containers for interim storage and ultimate disposal at radioactive waste site

Typical agents – Sarin or Cyanide
Few decontamination wastes except bags of contaminated clothing and protective equipment from the initial crisis phase
Combustible waste disposed to local clinical waste incinerator

Typical agents – Plague or Ricin
Decontamination mainly generates dilute chlorinated waste water from hypochlorite bleaching solutions
Waste water neutralised to remove chlorine then discharged to sewage drain

No useful agents

Figure 1
Urban CBRN Decontamination

Chemical
Biological
Radiological

Type of Agent

Persistent
Non-Persistent

Environmental Behaviour
Typical agents – Mustard or VX
Decontamination mainly generates chlorinated topsoil and foliage from hypochlorite bleaching solutions
Soils to hazardous waste landfill. Foliage to local clinical waste incinerator

Typical agents – Anthrax
Decontamination mainly generates chlorinated topsoil and foliage from hypochlorite bleaching solutions
Soils to hazardous waste landfill. Foliage to local clinical waste incinerator

Typical agents – Colbalt-60 or Iridium-192
Decontamination mainly generates radioactive topsoil and foliage
Soil and foliage packaged in ISO containers for interim storage and ultimate disposal at radioactive waste site

Typical agents – Sarin or Cyanide
Few decontamination wastes except bags of contaminated clothing and protective equipment from the initial crisis phase
Combustible waste to local clinical waste incinerator

Typical agents – Plague or Ricin
Few decontamination wastes except bags of contaminated clothing and protective equipment from the initial crisis phase
Combustible waste to local clinical waste incinerator

No useful agents