

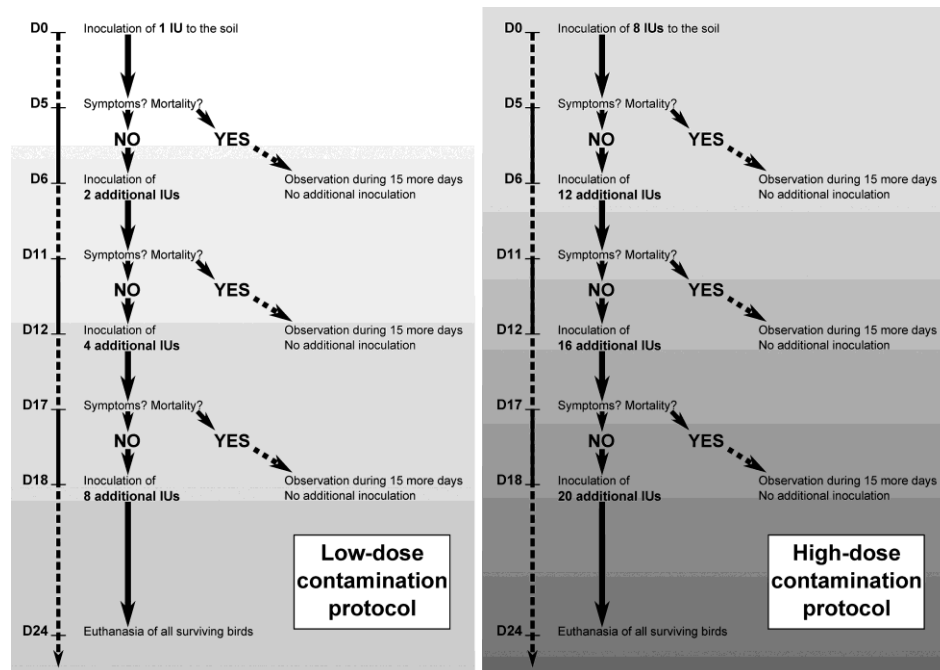
# Contaminated Soil and Transmission of Influenza Virus (H5N1)

## Technical Appendix

Technical Appendix Table. Physico-chemical and bacteriological parameters measured in the soils tested

		Sandy topsoil (rice fields)	Building sand	Soil-based compost
Microbiological analysis	Total aerobic plate count at 37°C, 24h (CFU/mL)	$2.00 \times 10^2$	$8.00 \times 10^4$	$2.00 \times 10^5$
	Total aerobic plate count at 22°C, 72h (CFU/mL)	$6.00 \times 10^2$	$9.00 \times 10^4$	$3.40 \times 10^5$
	Total Coliforms (CFU/100mL)	30	$3.00 \times 10^6$	$7.20 \times 10^6$
	Thermotolerant Coliforms (CFU/100mL)	10	$1.00 \times 10^6$	$4.00 \times 10^6$
	<i>Escherichia coli</i> (CFU/100mL)	<1	$5.00 \times 10^2$	$1.70 \times 10^4$
	<i>Enterococcus faecalis</i> (CFU/100mL)	<1	$2.00 \times 10^2$	$2.30 \times 10^3$
	Sulfite reducing anaerobes (CFU/20mL)	4	$6.00 \times 10^2$	$5.00 \times 10^3$
Physico-chemical analysis	Turbidity (NTU)	>100	>100	>100
	pH	6.4	6.3	6.3
	Chloride (mg/L)	76	41	42
	Ammonia (mg/L)	0.88	0.35	1.61
	Nitrite (mg/L)	0	0	0
	Nitrate (mg/L)	1.6	0.22	0.46
	Hardness (mg/L)	7	11	9
	Iron (mg/L)	0	0	0

All analyses were conducted on water extracts obtained from mixing the soils with distilled water.



Technical Appendix Figure. Low- and high-dose contamination protocols. IU: Infectious Unit = 1g of Specific Pathogen Free ducks feces, experimentally contaminated with  $10^{7.8}$  Egg Infective Dose 50% (EID50). D: Day.