



Scottish Centre for Infection and Environmen

Background - Geographical overview - Miscellaneous -

Topical overview

air

food

land

water

human health surveillance:

Human health issues

Human health concerns related to the foot and mouth epidemic can be categas:

- 1. the risk of human cases of foot and mouth disease;
- acute respiratory or cardiovascular health problems due to inhalation chemicals emitted from pyres;
- gastrointestinal infections arising from pollution of drinking water (part for untreated private water supplies in the vicinity of sites for burial of carcasses or ash from pyres) by bacterial, viral or chemical pathogen.
- long term health effects due to inhalation or ingestion of chemicals en from pyres;
- spread of variant CJD due to pollution of drinking water by the BSE pr
- occupational health and safety problems associated with the process and carcass disposal;
- mental health problems arising from the psycho-social impacts of foot mouth on members of the affected communities.

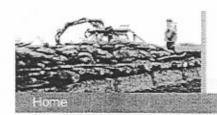
Across this range of concerns, the local health boards are monitoring communication bealth by enhancing their routine surveillance of health data including hospit discharge records and outpatient records for both acute and mental healthcal

For Dumfries and Galloway, an audit of general practices is being undertake Annandale and Eskdale Local Healthcare Co-operative. This involves distrib forms to GPs requesting information on presentations that could be associat the foot and mouth epidemic and subsequent collection and collation of data addition, a local survey of general levels of health by Canonbie General Praciplanned and a survey of mental health problems in farmers will also be carries subject to ethical approval.

A summary of all of the health surveillance programmes appears in the moni programme section of this website.

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Scottish Centre for Infection and Environmen

Background

outbreak overview the organisations involved reporting arrangements

the monitoring programme:

Environmental Monitoring

The programme comprises collection and analyses of samples from air, water herbage and foodstuffs. A summary of activities, roles and responsibilities of agencies involved is outlined below:

Microsoft Word 6.0 summary (36KB) Adobe Acrobat PDF summary (1

Public Health Monitoring

A summary of the various monitoring programmes is outlined below:

Microsoft Word 6.0 summary (24.5KB) Adobe Acrobat PDF summary (71

Air

Parameter: Various gases including SO2, NO2 and VOCs

Monitoring Activity: Real time monitor

Location and Timescales: One small pyre directly downwind over 4 days

Analysed by: Glasgow Scientific Required by:

Outputs used to:

Paid for by:

Glasgow Scientific Services

Services

Dumfries & Galloway Council

· Assess acute public health risk

Dumfries & Gallow:

Parameter: PM10 particulate in air

Monitoring Activity: High volume air sample on filter

Location and Timescales: One small pyre directly downwind over 4 days

Agency: Glasgow Scientific Analysed by:

Required by: **Dumfries & Galloway** Outputs used to:

Paid for by:

Services

Glasgow Scientific Services

Council

Assess acute public health risk

Dumfries & Gallow:

Parameter: Dioxin in air

Monitoring Activity: Real time monitor

Location and Timescales: One small pyre directly downwind over 4 days

Agency:

Analysed by:

Required by:

Outputs used to:

Paid for by:

Glasgow Scientific Services

Atomic Energy Authority

Dumfries & Galloway

Assess long-term public health risk

Dumfries & Gallow:

Parameter: Gas and odour including H₂S, methane, VOCs and formaldehyde

Monitoring Activity: Real time monitors and charcoal tubes

Location and Timescales: On-site at the Birkshaw mass burial site and at various locations off-site in respon local concerns over odour

Agency:

Analysed by:

Required by:

Outputs used to:

Paid for by:

Glasgow Scientific

Glasgow Scientific Services

Dumfries & Galloway

Assess nuisance and to inform overall

Services

Council

management of the site

Dumfries & Gallow:

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Water

Parameter: Chemical analysis of ground-water with additional microbiological analyses if necessary Monitoring Activity: Collection of water samples from monitoring wells Location and Timescales: Sampling programme at Birkshaw mass burial site. Results to be provided to SEE and SEPA. Note: SEPA initially sampled monitoring wells weekly during April 2001, Enviros now sampling w Agency:

Analysed by:

Required by:

Outputs used to:

Paid for by:

Enviros Consultancy

Sub-Contracted

SEERAD

Assess impact of operations on groundwater

and water supplies. To inform management SEERAD

Parameter: Chemical and ecological analysis of surface water Monitoring Activity: Collection of samples from local watercourses

Location and Timescales: Initial daily sampling around the Birkshaw mass burial site. Now fortnightly sampli no evidence of pollution from initial monitoring. Additional monitoring also being undertaken by SEPA at buri near Newcastleton Chemical analysis only to date

Agency:

Analysed by:

Required by:

Outputs used to:

Paid for by:

SEPA

SEPA

Assess any off-site environmental impacts. Inform site operations and controls over

SEPA

leachate etc.

Parameter: Dioxin and PAH in drinking water

Monitoring Activity: Collection of drinking water samples

Location and Timescales: Samples from each of the private and public water supplies considered to be mos near any pyre. One sample will be taken from each private supply borehole and a sample from the inlet and each public supply surface water reservoir. In addition a control sample will be taken in each case some dist away from (1) the private supplies and (2) the public supplies

Agency:

water supplies

LAs for private water supplies, WAs for public Analysed by:

Required by:

Outputs used to:

Paid for by:

Glasgow Scientific Services

Dumfries and Galloway Council / WOSWA

Assess the safety of drinking water

Dumfries and Gallo Council / WOSWA

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Pastures and soils

Parameter: Dioxin and PAH

Monitoring Activity: Collection of samples of potentially polluted herbage and soils*

Location and Timescales: Three samples of herbage and of soils to be collected from each of the locations i

Agency:

University of Liverpool

Analysed by:

Required by:

Outputs used to:

Paid for by:

Environment Research and Consultancy Unit *

MAFF Central Science Lab in York

FSA

Assess food safety and determine stocking

FSA

policy

Food

Council

Parameter: Dioxin in animal produce

Monitoring Activity: Collection of dairy products, free range eggs, meat, fish and vegetables Location and Timescales: To be advised by FSA Scotland following discussion with other FSA colleagues

Analysed by: Outputs used to: Required by: Paid for by: Dumfries and Galloway Glasgow Scientific Dumfries and Galloway Glasgow Scientific
Council / Scottish Borders Services / Central Service Dumfries and Galloway
Assess food safety
Council / FSA ESA

Laboratory

* As part of the UK-wide programme co-ordinated by the Environment Agency N.B. Agencies in the Dumfries and Galloway area have been specified in the above table. Similar arrangements proportional to risk are envisaged Scottish Borders Area with respect to water monitoring.

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Public health monitoring

Health issue: Human foot and mouth

Monitoring body: Local GPs and hospital clinicians

Surveillance system: Samples sent to PHLS for virology and serology

Reporting system: PHLS reports back to sample provider and to Health Boards

Health issue: Acute respiratory and cardiovascular health conditions

Monitoring body: Local GPs and hospital clinicians, plus specific audit of general practices by Annandale an Eskdale Local Healthcare Co-operative

Surveillance system: Enhanced routine community health monitoring programmes. GP audit by Annandale a Eskdale Local Healthcare Co-operative

Reporting system: Data will be collated and analysed by the local Health Board and reported through SCIEF audit data may be published elsewhere.

Health issue: Gastro-intestinal infections possibly associated with polluted drinking water

Monitoring body: Surveillance systems already in place via the Department of Public Health Surveillance system: Identification of cases of diarrhoeal illness that might be linked to private water supplied Reporting system: Local GPs, hospital clinicians and laboratories report cases to the local CPHM who will correports and send on to SCIEH.

- Health issue: Longer term health concerns

 Monitoring body: Information and Statistics Division and the Scottish Centre for Infection and Environmental Surveillance system: Routine surveillance programmes (cancer registration etc.)

 Reporting system: Data will be collated and analysed, as appropriate by ISD and SCIEH
- Health issue: Variant CJD

 Monitoring body: Local GPs and hospital clinicians

 Surveillance system: CJD Surveillance Unit at the Western General Hospital in Edinburgh

 Reporting system: Local GPs and hospital clinicians report suspected cases to the CJD Surveillance Unit
- Health issue: Occupational health and safety
 Monitoring body: Employers and local GPs and hospital clinicians
 Surveillance system: Employer's occupational health and safety systems or the other health surveillance systems or the other reporting systems noted appropriate
- Health issue: Mental health in the affected communities

 Monitoring body: Canonbie General Practice

 Surveillance system: Repeat local health survey in the locality

 Reporting system: Method of public dissemination of results has yet to be decided

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