



# Mogden Sewage Treatment Works

Residents' Liaison Meeting

01 April 2009

# Agenda

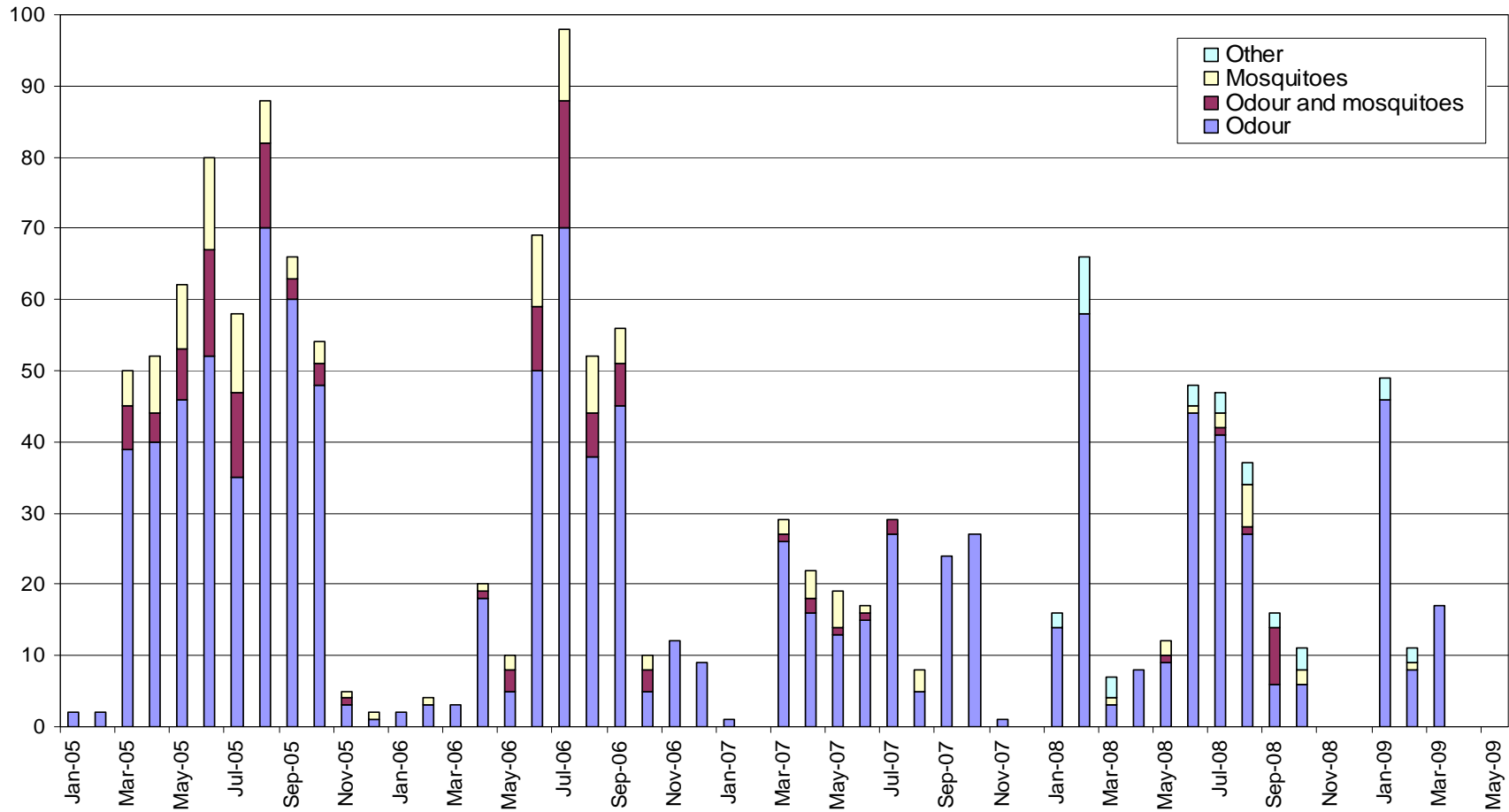


- Review of previous minutes
- Operations and correspondence
- Mosquitoes and the Mosquito Campaign 2009
- The Odour Improvement Project and its independent review
- Tidal Thames Quality Improvements Project
- Communications
- AOB



# Operations and correspondence

# Operational Correspondence





# **Mosquitoes and the mosquito campaign 2009**

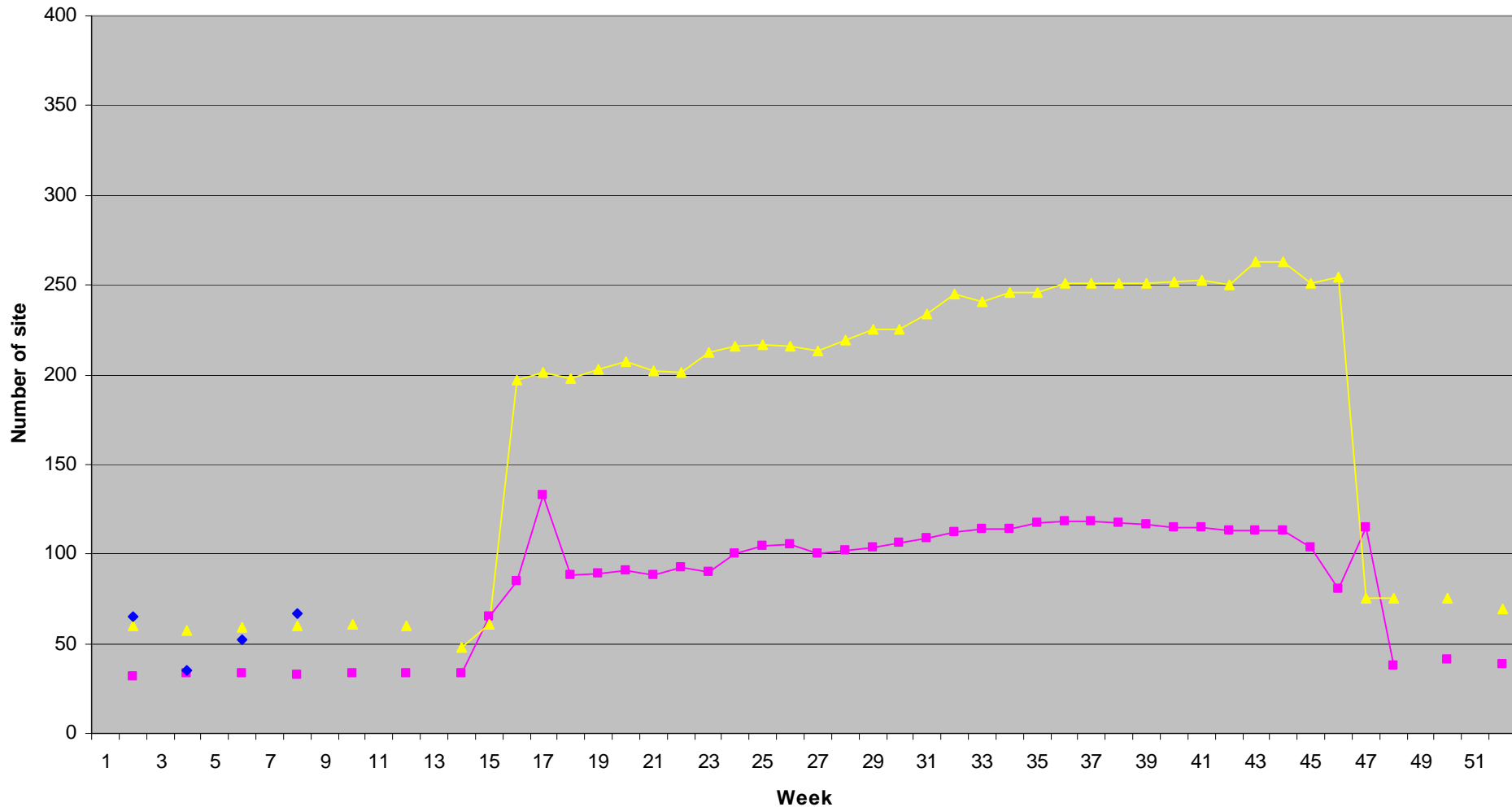
# Controlling mosquitoes at Mogden (1)



- We operate a strict all year-round mosquito survey and control programme
- Surveys are carried out on a weekly basis by external experts in mosquito identification
- The number of sites surveyed vary with mosquito breeding patterns
  - Winter – up to 60 sites
  - Summer - up to 250 sites

# Mosquito data

## - Number of sites inspected



— Average 03-07 — 2008 — 2009

# Controlling Mosquitoes at Mogden (2)

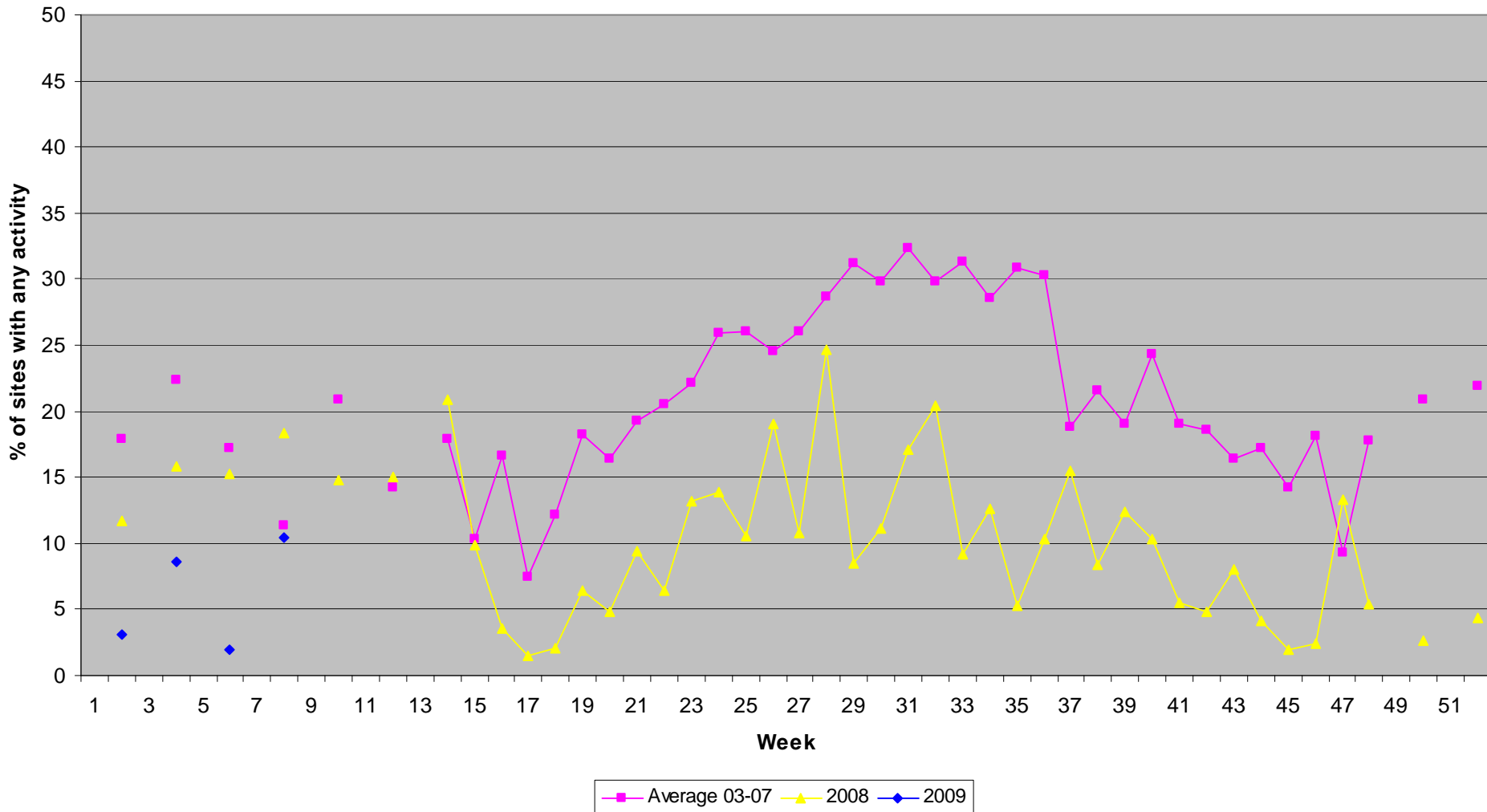


- We use a number of different methods to control mosquitoes
  - **Physical** - **Removing stagnant water breeding sites, for example unblocking drains.**
  - **Biological** - **Using natural methods of control such as bacterial spraying of larvae**
  - **Mechanical** - **Using ultraviolet light traps that 'zap' insects with a high voltage electric shock**
  - **Chemicals** - **Using pesticides to kill adult mosquitoes**
  
- Regular control measures are implemented less than 2 days after the surveys are carried out



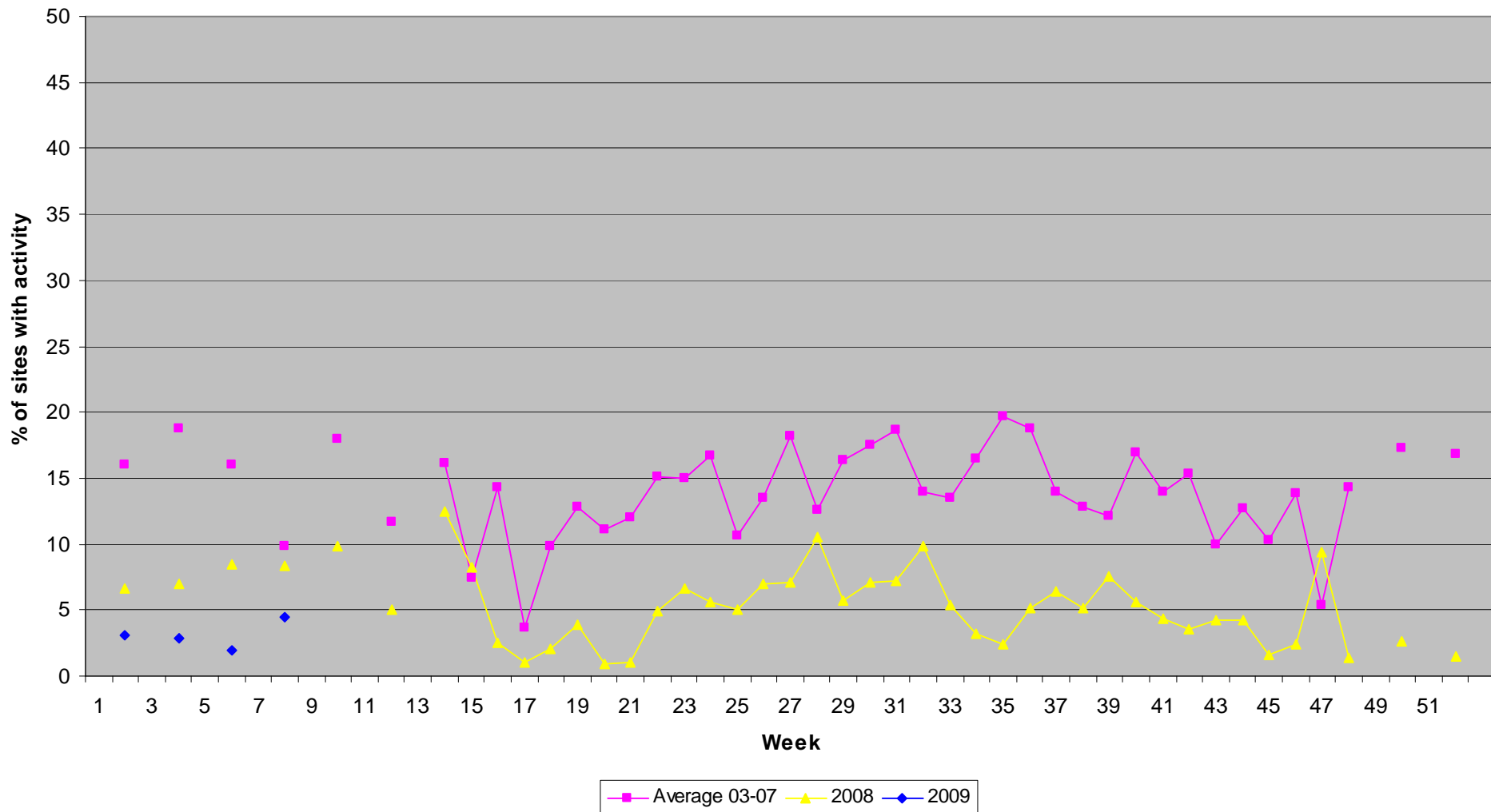
# Mosquito data

## - Percentage of sites showing any activity



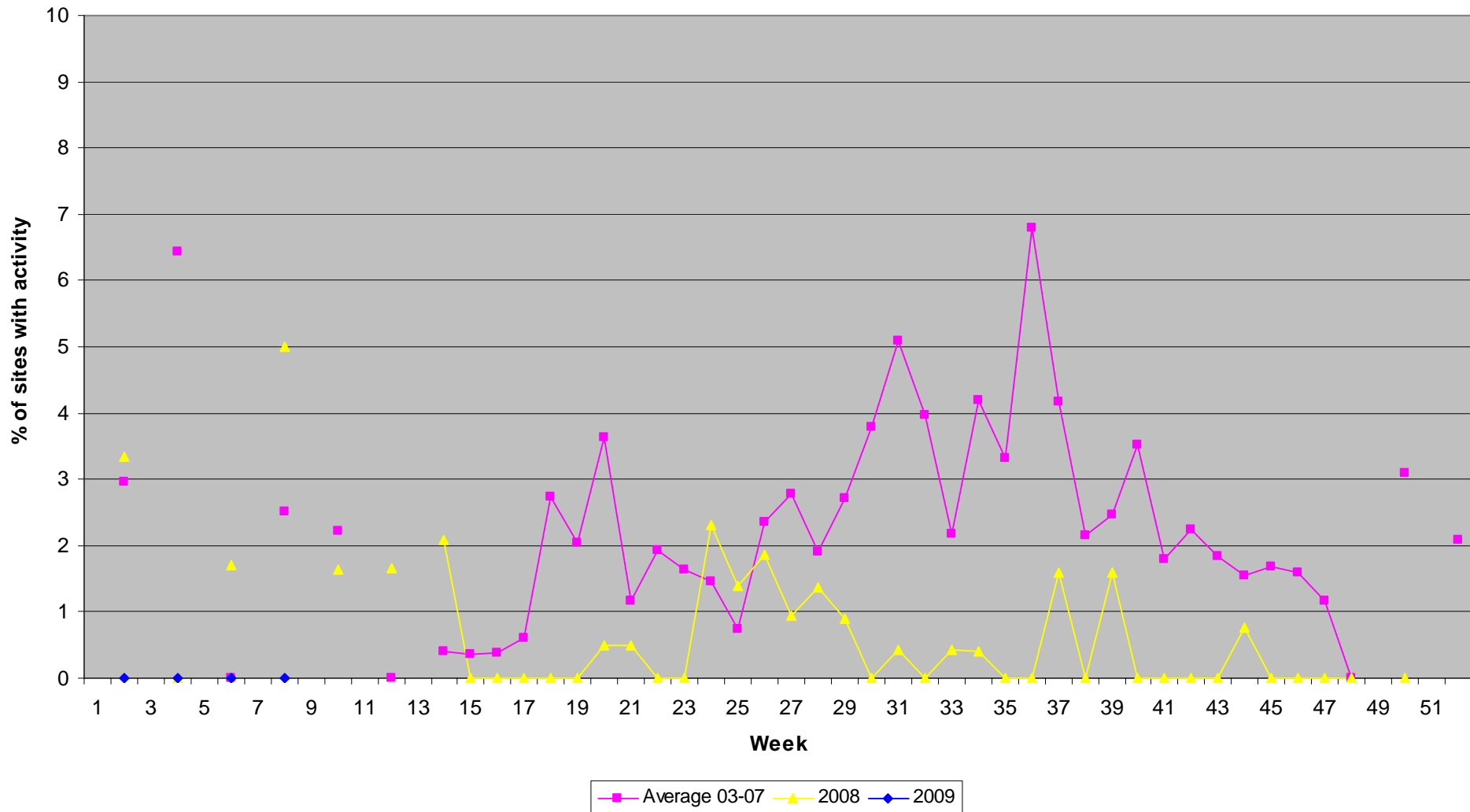
# Mosquito data

## - Percentage of sites showing any adults



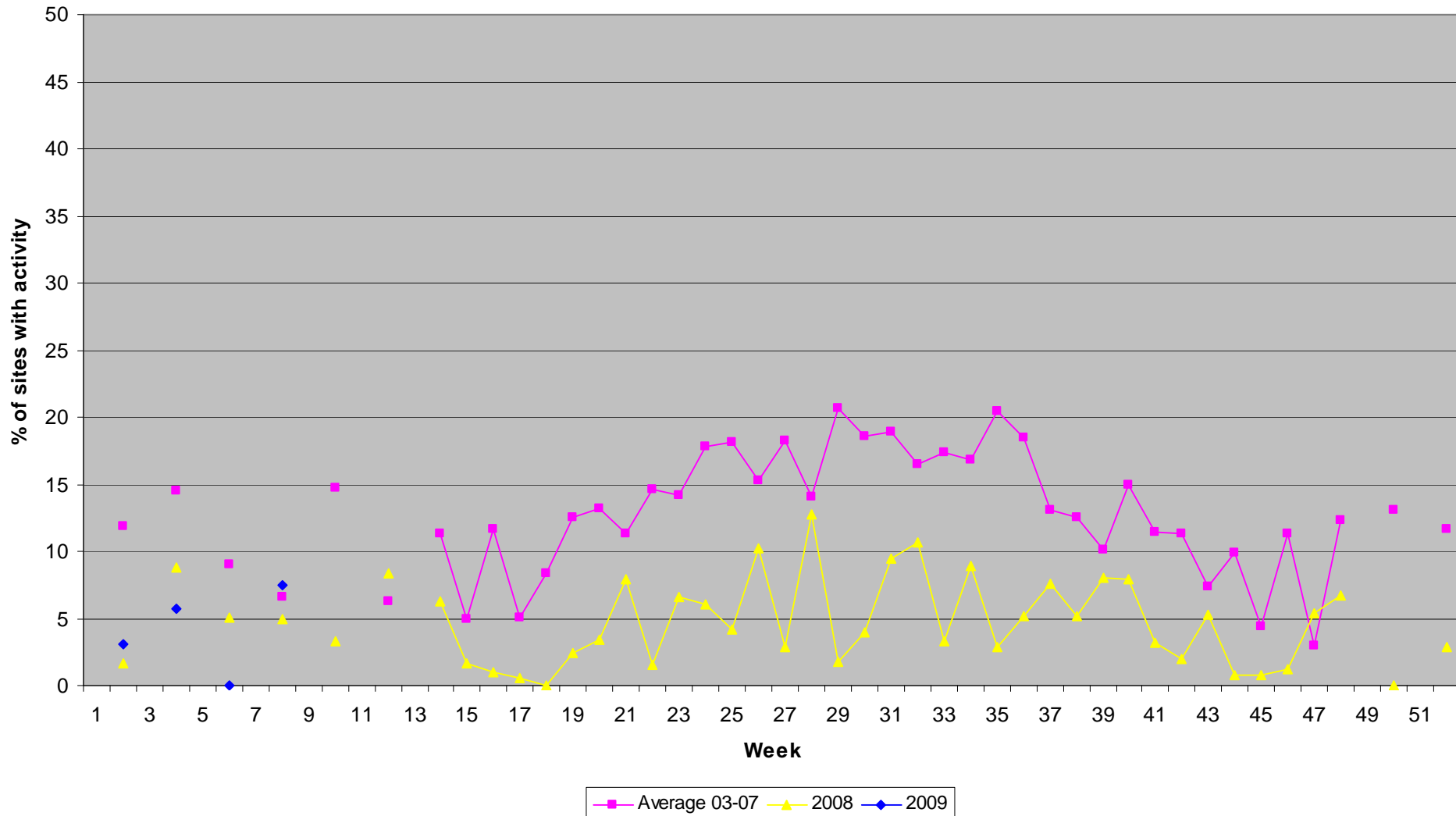
# Mosquito data

## - Percentage of sites many adults



# Mosquito data

## - Percentage of with larvae activity



# Beating Biting Bugs campaign



- In May we will be distributing our Beating Biting Bugs campaign leaflet to local residents around the works.
- We are working closely with LB Hounslow and LB Richmond and plan to have an article in their resident publications later this summer.





# **The Odour Improvement Project and its independent review**

# Background



- At our last price review in 2004, we included investment to reduce odour at Mogden in our business plan. This was submitted to our regulator, Ofwat.
- In their price determination in 2005 Ofwat allowed us to increase bills to customers in order to fund Mogden odour improvements. This was based on a 66% reduction of odour (measured against the 2003 odour survey).
- The main scope of work was to cover the below key parts of the treatment process highlighted by an independent review, including:
  - Inlet Works (East and West side of Mogden)
  - Primary Settlement Tanks (East Side)
  - Two Storm Tanks (East Side)
- We also installed 2 sets of equipment to extract and treat the odorous air, known as odour control units.
- All of the above areas of odour control were designed to robustly comply with the requirements of the odour abatement notice.

# Some examples of odour control



**Odour Control Unit (East)**



**Grit Skip Enclosure (East)**



**Storm Tanks 4 & 5 (East)**



**Storm Weir (East)**



**Cross Flow Grit Traps (West)**



**Odour Control Unit (West)**



# The result



- In September 2008, OdourNet carried out an odour survey to see if we have met the required reduction of odour.
- The calculated reduction in site odour emissions determined by direct comparison showed the following:
  - 90% reduction compared to the 2003 dataset
  - 82% reduction compared to the 2005 dataset
- Taking into account for variations in emissions from different plant across the works, the calculated 'worst case' shows the following :
  - 72.9% reduction compared to the 2003 dataset
  - 66.2% compared to the 2005 dataset
- A full copy of this report is available on our website:

[www.thameswater.co.uk/mogden](http://www.thameswater.co.uk/mogden)



# Tidal Thames Quality Improvement Project

# Background



- Thames Water is investing in improving the water quality of the Tidal River Thames; for the ecology that thrives there, and everyone who uses and enjoys it.
- The proposed site improvements will enable Mogden STW to cope better with increased flows caused by heavy periods of rain, or 'storm conditions'.
- This will mean a significant reduction in the need to discharge any untreated wastewater into the River Thames.
- The improvements will also mean less use of the existing storm tanks.
- The new works will be odour neutral



- In March 2009, Hounslow Council approved the planning application for the proposed improvements to Mogden STW subject to the completion of a legal agreement and subject to a decision by the Mayor of London and referral to the Government Office for London.
- We are encouraged by Hounslow planning committee's recognition of the need to improve the quality of the Tidal Thames and their positive response to our proposed improvement works.
- We will continue to work closely with the Council to finalise the legal agreement and meet the planning conditions.



# Communications

# Keeping up to date with Mogden



- **E-Mail notifications**

Informing residents of possible increase in odour

To subscribe, email us at [mogden@thameswater.co.uk](mailto:mogden@thameswater.co.uk)

- **Mogden Newsletter:**

Next edition will covering the results of the Odour Improvement Project and the Tidal Thames Quality Improvements.

- **Mosquito Awareness Campaign 2009:**

'Beating Biting Bugs'



# Find out more...

There are a number of ways of contacting us to find out more information.

- Call our Customer Centre, our lines are always open

**0845 9200 800**

- Visit our regularly updated website

[www.thameswater.co.uk/mogden](http://www.thameswater.co.uk/mogden)

- Send a letter to

Thames Water

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**A.O.B**