

# Environmental Justice in the Field

Two Projects

Jennifer Charles

# Effective Communication

- Involve the community
- Assess population's unique character
- Learn how they communicate with each other
- Let them participate in the design
- Make information accessible
  - Location
  - Form

# Two projects

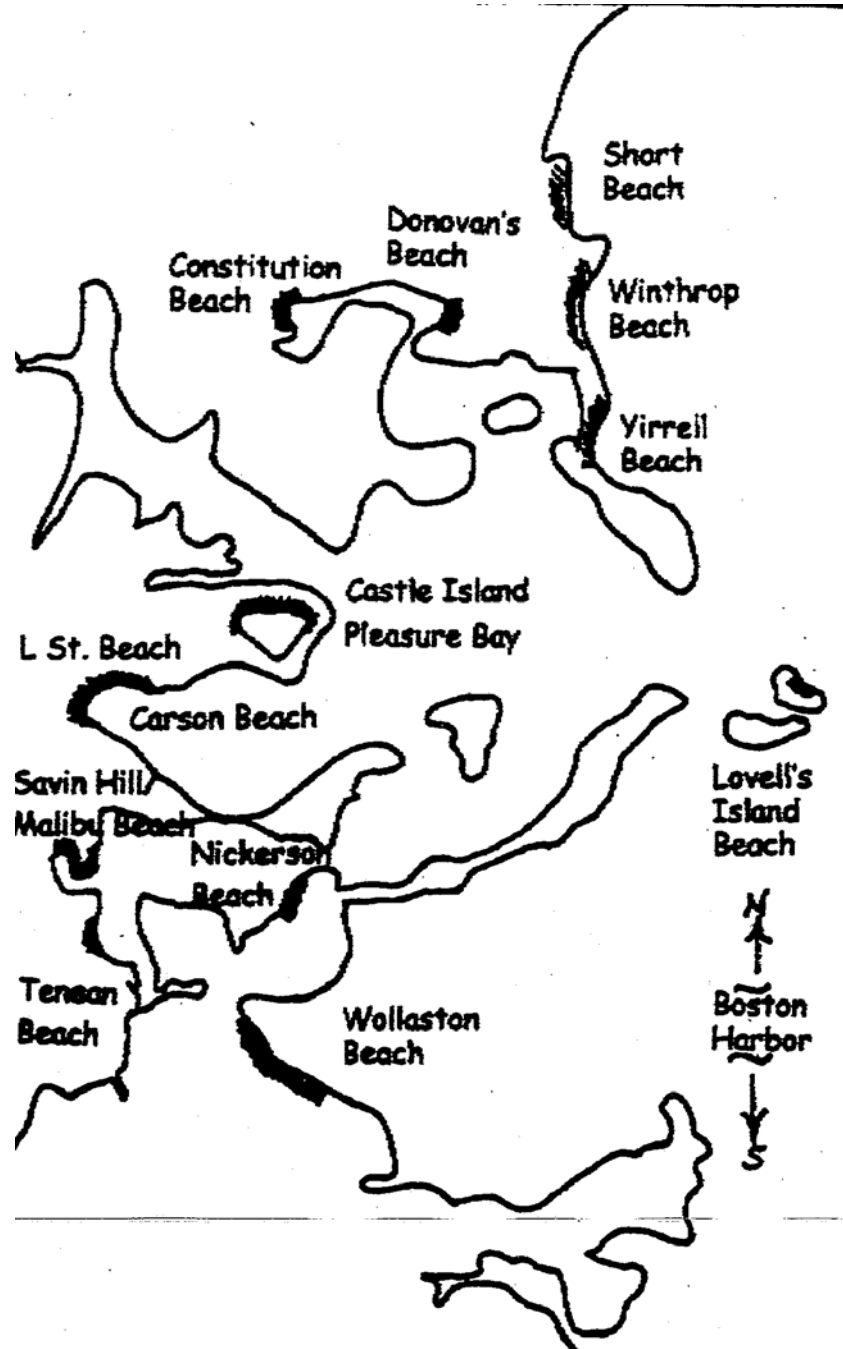
- Subsistence fishing among Southeast Asian populations
  - 1995-2002
  - Revere, Lynn, Chinatown, Lowell, Portland ME
- Air quality monitoring
  - 1999-2001
  - Roxbury

# Subsistence Fishing

- Southeast Asians were harvesting contaminated shellfish from Boston area beaches
- Traditional enforcement failed

# How could we educate the community to reduce risk?

- Use community members
- Use local media (PSAs, cable news)
- Participate in local health fairs
- Design permanent signs in the right language
- Multilingual Pamphlets



S. Davis

從波士頓灣海域出產的這些貝類吃了會有危險

●硬殼蚌

(quahogs)生活在  
兩吋的沙或泥裏。  
通常用手耙來挖。



A Steamer



●軟殼蚌

(steamers)生活在潮汐區  
六吋深的沙裏。  
通常用手或鏟來挖。

字彙

下面是這手冊常用辭（下有劃線）的定義。

- 病菌** 到處都有的微生物。有些病菌會令人類或動物生病。別的“好病菌”則幫助我們消化食物。它們可以經由人傳播，也可由水或食物傳給人。高溫烹煮可以將水裡或食物裡的人類病菌殺死。
- 缺陷兒** 胎兒未出生時已帶有的毛病。
- 污染** 令水、空氣和食物不宜於人或動物的現象。細菌或毒素可以引致污染。
- 淨化** 清除附在貝類的細菌的方法。這方法要使貝類安全可供食用。
- 穢泄** 人體排泄物，通指糞便。
- 大腸桿菌** 糞便裏的細菌，能在水中生存。衛生局計算水中大腸桿菌含量來預測貝類可能含有病毒及病原菌的含量。

需要多點資訊嗎？

Massachusetts Division of Marine Fisheries  
617-727-3193

Massachusetts District Commission (MDC)  
for information about beach water quality.  
617-727-5264 extension 517

Massachusetts Executive Office of Environmental Affairs  
617-727-9800

關於 Charles Consulting

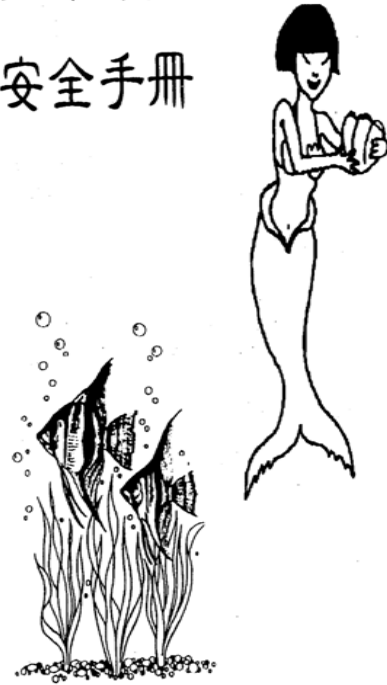
Charles Consulting 是家小規模少數民族擁有的專注於公平環境衛生的環境衛生顧問公司。目的是協助政府部門、私人機構、研究所及其他組織，在公平環境衛生方面進行研究、教育、職業訓練和推動社區發展。這公司已經與亞裔、白裔、原住民、凡第角裔和非裔社區中的社經諮詢群體有合作經驗。

為麻州海岸社區

特撰

貝類海產

安全手冊







# Airbeat

- Raise awareness of air pollution and its consequences in Roxbury
- Help residents use data to limit outdoor activity on high-pollution days
- Help authorities enforce traffic restrictions on high-pollution days

# The Problem

- Asthma hospitalization rate five times as high as the state average
- Traffic density (1,000 diesel vehicles within 1½ miles)
- 160 Diesel vehicles pass Eggleston Square per hour
- High density of children

# Actions

- Real time air quality monitoring done by Roxbury residents
- Make data readily available to public
- Educate residents about air pollution
- Help residents protect themselves from harmful effects

# Partners

- Harvard School of Public Health
- Suffolk County Conservation District
- Alternatives for Community and Environment
- Massachusetts Department of Environmental Protection
- Northeast States for Coordinated Air Use Management

# Monitoring

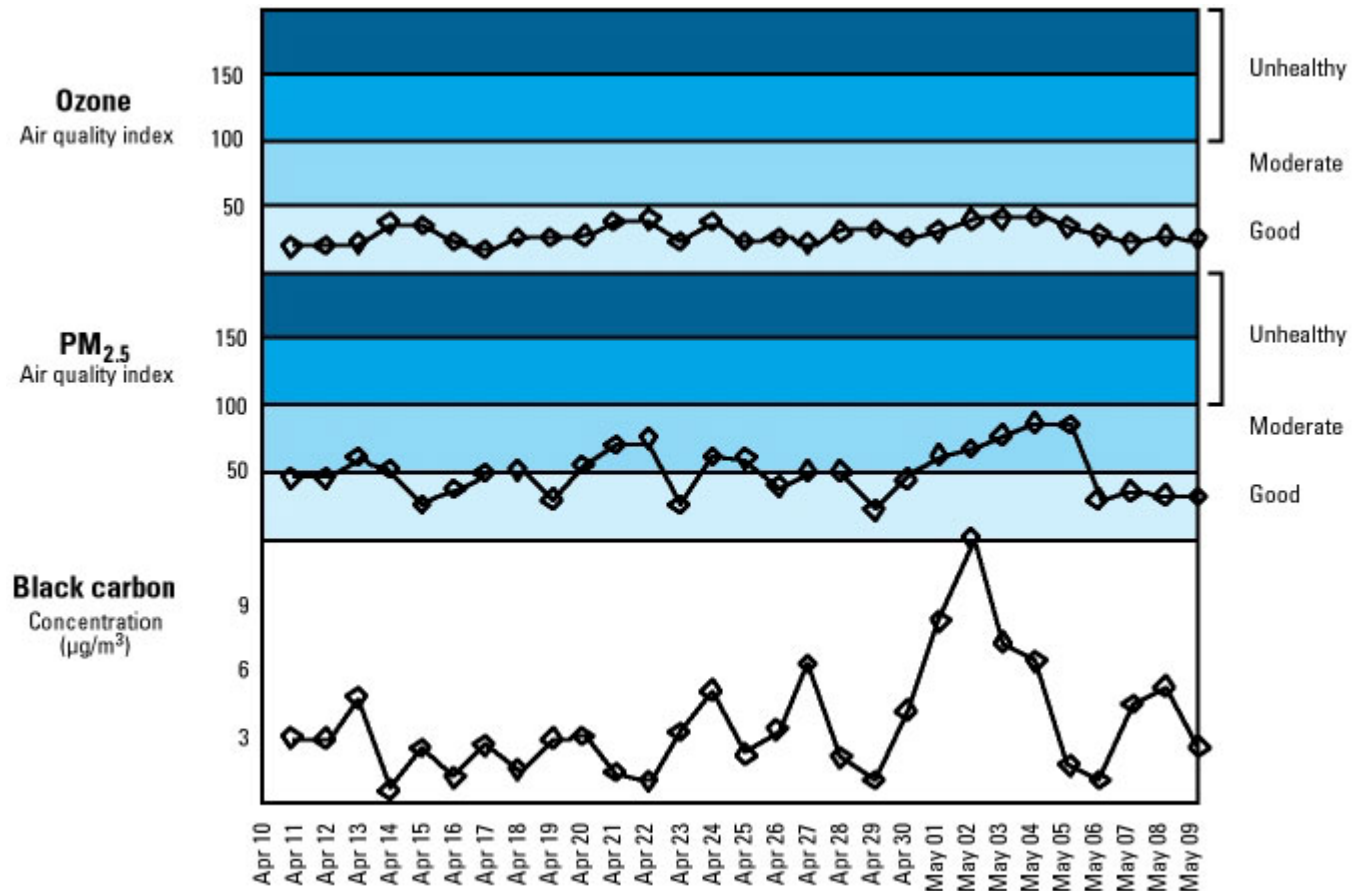
- Ground level ozone (smog)
- Fine particulate matter (PM 2.5)
- Black carbon (diesel exhaust)

# Airbeat Monitoring Site





# This Month's Air Pollution



# **Boston Hazecam View from Swampscott 12 miles away**



# Data Access Design

- Website ([airbeat.org](http://airbeat.org))
- Hotline (no longer used)
- Email and fax notification to schools
- Roxbury Community Access TV
- Radio announcements

Are you sensitive to AIR POLLUTION?

**The BEAT. Realtime Air Quality Data**

- Pollution Levels
- Pollution Movies
- Pollution Forecast
- Boston Skyline
- Pollution Alerts

As of 2:00 PM 4/12/10

Current Air Quality: **Good**

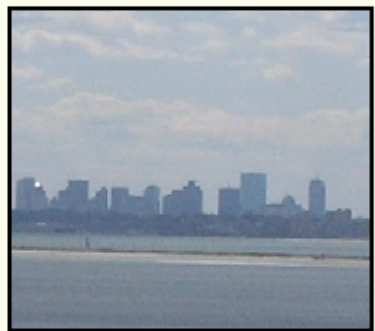
- Home
- Health Effects
- Actions
- Pollution Sources
- Recent Projects
- Links
- About AirBeat
- Contact Us
- [Text Only](#)

**Welcome to AirBeat!**

Your source of realtime air quality information in the Roxbury, MA area.

As of 2:00 PM  
Monday, April 12, 2010

<b>Current Air Quality:</b>	Not Available for ozone <b>Good</b> for fine particles
<b>People at Risk:</b>	None.
<b>Recommendations:</b>	None.



Boston Hazecam View  
From Swampscott 12 miles away

**What's New**

[-New Mass-DEP Air pollution Website, and Airbeat Telephone Hotline Discontinued](#)



**EMPACT**

Environmental Monitoring for Public Access  
& Community Tracking

An [EMPACT](#) pilot sponsored by the [U.S. EPA](#) and [MASS DEP](#)

# Community Involvement

- Workshops for residents
- Train local school teachers to use data
- Get students involved in projects
- Health fairs at local health centers
- Housing associations distributed pamphlets and guidance to information

# Lessons Learned

- Assess risk exposure
- Involve
- Engage
- Communicate
- Disseminate
- Accessible and Understandable
  - Take the information to the neighborhood
  - Get the language right
  - Respect culture