

## **Toxics Cleanup Program**

**July 2012** 

# **Soil Safety at Federal Way Parks**

Three parks in Federal Way have some Tacoma Smelter Plume soil contamination in their woods. Arsenic and lead from the old Asarco copper smelter in north Tacoma traveled with the wind and landed on soils over a large area (see map on page 3).

In 2009, the State of Washington received a \$94 million settlement from Asarco for environmental damage from its Tacoma smelter. The Department of Ecology is using some of this money for the Soil Safety Program.

## The Soil Safety Program

Ecology samples and cleans up play areas at schools, childcares, parks, and camps. We have finished most of the school and childcare cleanups and now we are working on parks!

## Which parks have contamination?

The state cleanup level for arsenic is 20 parts per million (ppm) and lead is 250 ppm. Background levels for arsenic are around 7 ppm and 24 ppm for lead.

- Lake Grove Outside of the play area, the park has average arsenic over 20 ppm and one spot with very high lead.
- Adelaide Average arsenic and lead are below state cleanup levels. One spot had 44 ppm arsenic.
- **Heritage Woods** Average arsenic and lead are below state cleanup levels. One spot had 54 ppm arsenic.

See page 2 for details on what we plan to do next, and for a list of other parks we sampled.

#### What are the health risks?

Tacoma Smelter Plume contamination levels do not pose an immediate health threat. However, we do recommend using the Healthy Actions listed at the top right because...

Long-term exposure to **arsenic** can contribute to heart disease, diabetes, and cancers of the lung, bladder, skin, and prostate. The additional lifetime cancer risk from exposure to 20 ppm arsenic is 30 in one million.

**Lead** is especially harmful for children under age six. It can cause permanent damage to the developing nervous system and

# **Healthy Actions**



#### Please continue

to enjoy your parks! You can use Healthy Actions to protect your family from contaminated soil:

- Wash hands after working or playina outside.
- Take off shoes or use a doormat.
- Vacuum and damp dust regularly.
- Keep children's toys free of dirt.
- Wash fruits and vegetables from your garden.

### **More Information**

#### Soil Safety Program cleanups

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#### Free home soil testing and outreach

Diana Smith, Outreach Coordinator

Phone: (360) 407-6255

E-mail: Diana.Smith@ecy.wa.gov

#### Tacoma Smelter Plume website

http://www.ecy.wa.gov/toxics/tacomasmelter.html

## **Federal Way Parks**

Steve Ikerd Parks and Facilities Manager Phone: 253-835-6911

Facility Site ID #: 89267963

## **Tacoma Smelter Plume**

lead to behavioral problems. Lead risk is more complex to explain. For more on risk, see http://www.ecy.wa.gov/pubs/1109095.pdf.

#### Lake Grove Park

The arsenic and lead are in the woods. One area has very high levels of lead we suspect are from a different source. We plan to dig out the most contaminated soils and replace them with clean soils and new sod.

Digging in the woods might damage the trees. For areas with lower levels, we will leave contamination in place and put up signs encouraging people to stay on paths and take Healthy Actions (see page 1).



Lake Grove Park woods

# Adelaide and Heritage Woods Parks

At both parks, only one sample out of many had elevated arsenic and it was outside of the play area. We will provide signs to let people know about the risks and how to limit their exposure using Healthy Actions (see page 1).

# **Other Federal Way Parks**

The following parks have arsenic and lead <u>below</u> cleanup levels:

- Alderbrook
- French Lake
- Alderdale
- Mirror Lake
- Dash Point Highlands Olympic View

# **Why It Matters**

Ecology is focusing first on areas where children play. Children are more at risk from arsenic and lead in soil than adults.

They spend more time closer to the ground and often put their dirty hands and toys into their mouths.



Their growing bodies are also more vulnerable to the effects of arsenic and lead.

- **Palisades**
- Sacajawea
- Saghalie
- Steel Lake
- Steel Lake Annex

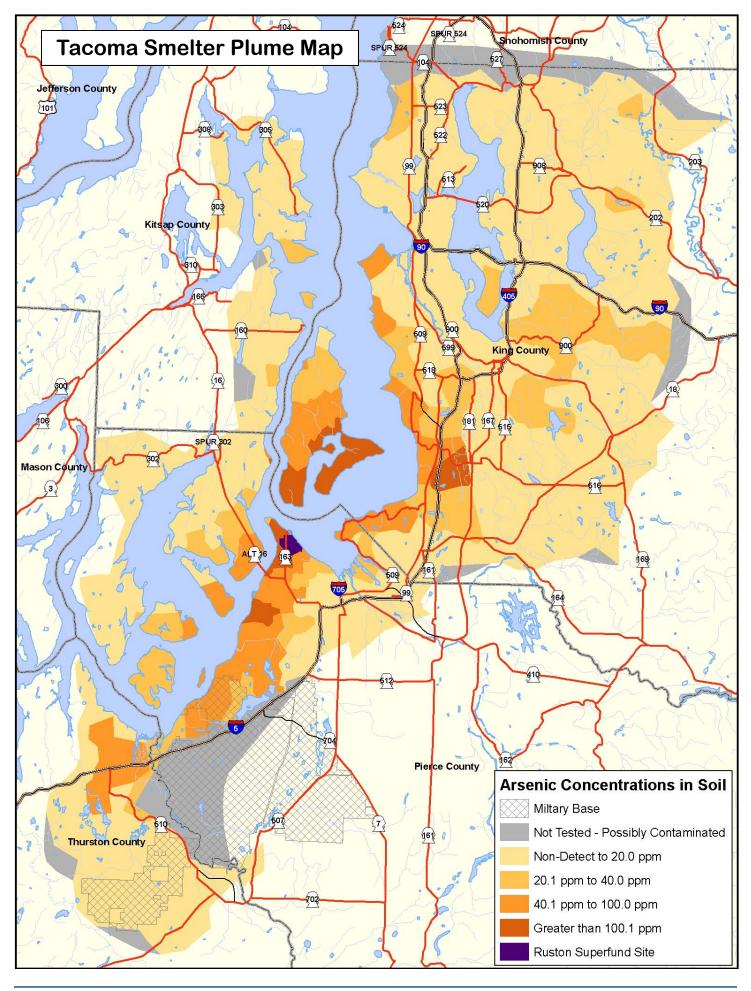
# **Do I Live inside the Tacoma Smelter** Plume?

If you live near one of the parks listed in this fact sheet, you are likely inside the plume. For a link to an interactive map, please visit our homepage http://www.ecy.wa.gov/toxics/tacomasmelter.html

# How can I find out what's in my soil?

This summer, Ecology is starting a free home soil testing program in King County. Please contact us to sign up (see box on front).

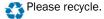
Whether you know what's in your soil or not, we recommend covering bare patches of dirt, maintaining good grass cover, and growing vegetables in garden boxes.



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This is a one-time mailing. Contact Diana Smith at Diana.Smith@ecy.wa.gov or (360) 407-6255 to join our mailing or e-mail list.



# Tacoma Smelter Plume Soil Safety Program King County, WA

## What we're doing about arsenic and lead soil contamination in Federal Way parks



## Facility Site ID #: 89267963

If you need this publication in an alternative format, call reception at (360) 407-6300. Persons with hearing loss, call 711 for Washington Relay Service. Persons with speech disability call 877-833-6341.

# Come to an open house at <u>your</u> neighborhood park to learn more...

- ➤ Wed. July 11, 2012, 6:30—7:30 p.m.
  - @ Heritage Woods Park, 28200 24th Place S
- Wed. July 18, 2012, 6:30—7:30 p.m.
  - @ Adelaide Park, 30916 16th Avenue SW
- ► Wed. August 1, 2012, 6:30—7:30 p.m.
  - @ Lake Grove Park, 833 SW 308th Street