

Tacoma Smelter Plume Yard Program Update

June 19th, 2018
Tacoma City Council Study Session
Washington Department of Ecology



Topics

- History
- Impacts
- Project Overview
- Yard Program
- Technical Assistance

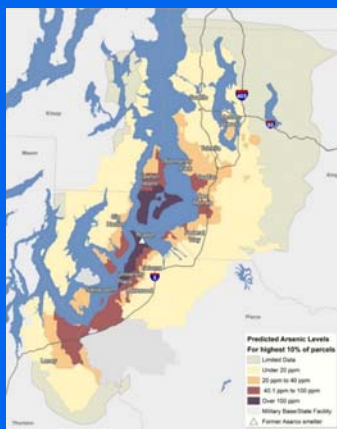




Tacoma Smelter Plume Project, Toxics Cleanup Program

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Tacoma Smelter Plume



Tacoma Smelter Plume Project, Toxics Cleanup Program

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Health Impacts

What are the health risks from arsenic and lead?

Arsenic and lead can contribute to poor health, especially in children. Children are more sensitive because their bodies are smaller and still developing.

Lead can cause developmental disabilities in children and can permanently lower I.Q.



Arsenic can contribute to cancer, diabetes and heart disease later in life.

Ways People Can Be Exposed



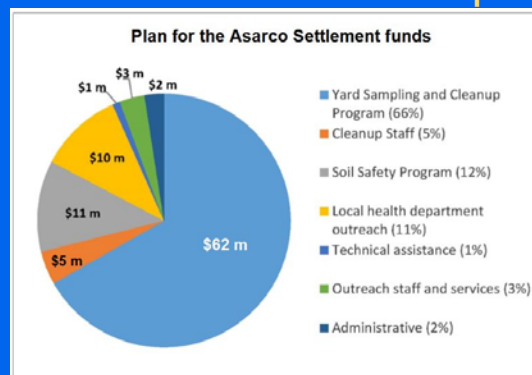
Healthy Actions



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Tacoma Smelter Plume project



Breakdown of the \$94.6 million Asarco settlement for the future cost of cleaning up the Tacoma Smelter Plume.

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Yard Sampling and Cleanup Program



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Yard Program Costs

| Program Area | Parcels Sampled | Sampling Cost | Parcels to Clean Up | Cleanup Cost |
|--------------------------------|-----------------|--------------------|---------------------|---------------------|
| EPA Study Area | 145 | \$ 217,500 | 716 | \$35,800,000 |
| Tacoma (outside of Study Area) | 3,019 | \$4,528,500 | 417 | \$20,850,000 |
| Southern Vashon-Maury Island | 753 | \$1,129,500 | 53 | \$4,770,000 |
| Total | 3,917 | \$5,875,500 | 1,186 | \$61,420,000 |

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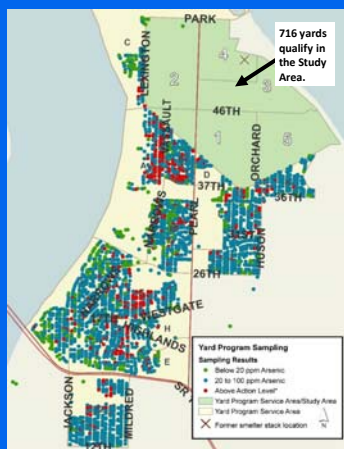
2017



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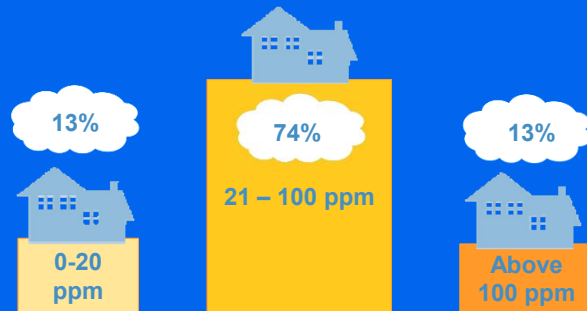
Soil Sampling in Tacoma



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Arsenic Sampling Results Breakdown



*33 Properties w/ Lead over Action Level of 500 ppm
Results from May 2018

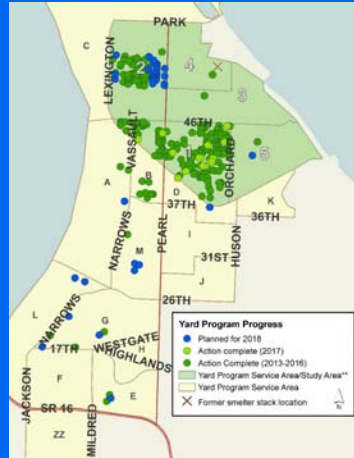
Soil Replacement – Tacoma 2018



Soil Replacement – Tacoma

Completed:
2013-2017

Total: 224 yards



Map as of 5/24/2018

Soil Replacement



Arsenic in Soil Database

Information:

- Results map & letter
- Soil replacement documentation
- Out of program letters

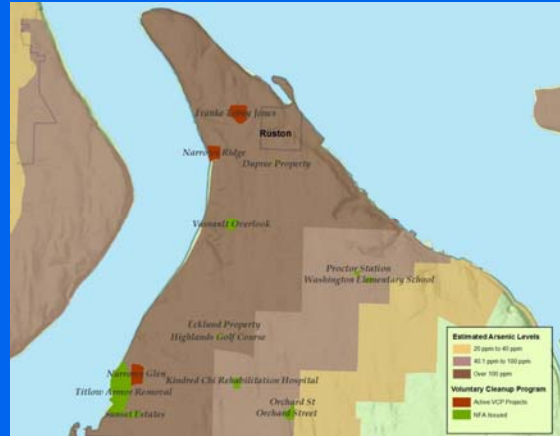


www.dirtalert.info/myresults

Web Map Application: Transforming and consolidating our data



Technical Assistance



Soil Sampling and Health Questions

Contact

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Website: <https://www.tpchd.org/healthy-homes/dirt-alert-tacoma-smelter-plume>

Yard Program or Soil Safety Questions

Contact

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Website: <http://ecology.wa.gov/Tacoma-smelter>