



# Asarco Hayden Plant

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## Site Updates and Upcoming Public Meeting

The purpose of this fact sheet is to update the public on the Environmental Protection Agency's (EPA) environmental investigation activities at the smelter and concentrator and to announce the upcoming public meetings to be held on October 21 at 6:00 PM and October 22 at 10:00 AM in Hayden.

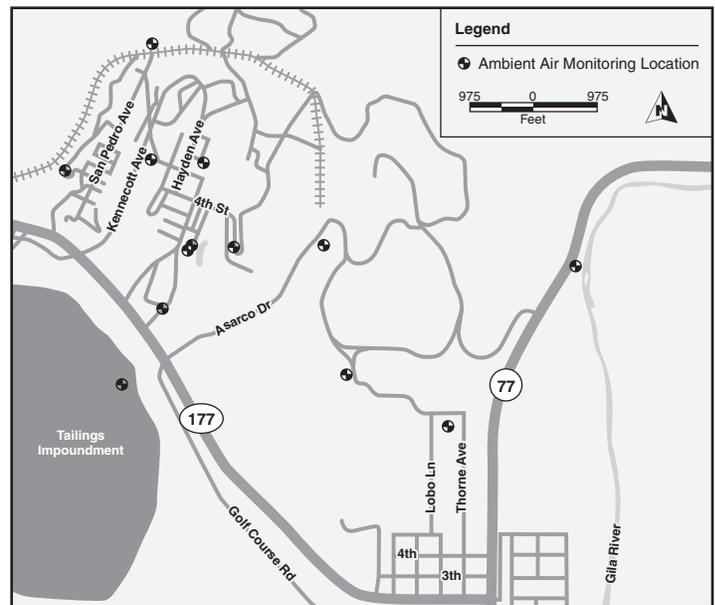
The ASARCO Hayden Plant Site has been undergoing an environmental investigation to determine the nature and extent of contamination in air, water and soil. The current investigation, which focuses on the industrial areas of the site, has been ongoing for a year.

In addition, this fact sheet provides information about the Agency for Toxic Substances and Disease Registry's (ATSDR) plans to offer free lead and arsenic testing to children and pregnant women who live in Hayden and Winkelman.

### Air Monitoring

Air monitoring has been conducted in and around residential areas near the site (See figure 1). The monitoring measures the levels of contamination in the air that people are exposed to who do not work in the plant. This monitoring, called ambient air monitoring, is done using a group of monitors in ten separate locations. The purpose of this monitoring is to find out how the levels and types of contamination are affected with changes in location, source and weather. Each location was specifically chosen to measure air contamination in parts of town that could be affected by plant activities. The air monitors use filters to measure the size, weight and composition of particles in the air. The monitors, which are typically located inside small fenced-in areas, pull air through filters for 24 hours every six days in order to take a measurement.

Figure 1. Ambient Air Monitoring Locations at ASARCO



### You're Invited!

Upcoming Public Meetings: October 21 at 6:00 PM & October 22 at 10:00 AM in the Hayden Senior Center

EPA will hold a public meetings on October 21 at 6:00 PM and October 22 at 10:00 AM in the Hayden Senior Center. At these meetings, there will be updates on site cleanup activities and next steps. ATSDR will share more information about the lead and arsenic testing they are planning. Parents of children 9 months to 11 years and pregnant women are encouraged to attend to learn more about the testing ATSDR is planning to offer.



Monitoring over the past year has shown arsenic, lead and cadmium are all present above EPA's safety levels. The following table shows the results of the air monitoring:

**Table 1.** Hayden Air Sampling Results From Phase 2 Air Sampling

	<b>Arsenic</b>	<b>Cadmium</b>	<b>Lead</b>
<b>Air Standard</b>	0.00065*	0.0016*	0.15
<b>Background<sup>+</sup></b>	0.0003 – 0.003	0.0001 – 0.0006	0.001 – 0.0027
<b>Average<sup>#</sup></b>	0.018	0.015	0.086
<b>Maximum</b>	0.254	0.047	0.582

All results in ug/m<sup>3</sup>

\* EPA Region 9 Screening Levels

+ Preliminary, based on site, Tucson and IMPROVE network monitoring

# of the highest station

The highest concentrations for these metals are generally in areas closest to the smelter building, such as the Hillcrest neighborhood, and are composed of both fine dust from smelter combustion and coarse dust from piles, roads and other sources. The highest concentrations of this dust were found around Terrace Hill Drive.

## Soil Sampling

Soil sampling has been conducted in non-residential areas of the industrial plant around the smelter and concentrator and the outlying natural areas. High concentrations of metals have been confirmed in the Hayden plant and former Kennecott smelter areas. Outlying, non-residential areas have also been impacted most likely from past emissions of smelter smoke.

## Water Monitoring

Stormwater, groundwater and river water has been sampled as part of the investigation. Stormwater samples were collected from the Kennecott Avenue wash area when it was raining in Hayden. Results showed arsenic, copper and lead greater than the standard in the runoff. Pockets of groundwater with levels above drinking water standards have been found in areas below specific facilities such as the former Kennecott smelter and the active slag dump area. Drinking water supply wells have been sampled and meet primary drinking water quality standards. River water samples do not show any significant changes from upstream to downstream as the river flows by the facility. More river water sampling will be conducted. To learn more about drinking water regulations, visit:

<http://water.epa.gov/drink/contaminants/#Primary>.

## Superfund Process and Next Steps

The Remedial Investigation has been collecting sampling information for one year. Most of the soil and water data have been collected, and air sampling will continue for another year. Once all the investigation's information is collected, options for cleanup will be assembled and presented to the public for comment. This should occur in early 2016. After cleanup design is completed, cleanup of the site will begin.

## ATSDR Plans to Offer Free Lead and Arsenic Testing

ATSDR is a federal public health agency. ATSDR is working with the Arizona Department of Health Services, EPA, the Arizona Department of Environmental Quality, and local leaders to protect the health of people who live in Hayden and Winkelman.

People in Hayden and Winkelman may come into contact with lead and arsenic in the air and soil. In addition, people may come into contact with lead from old paint or other sources in their homes, and with arsenic in the foods they eat. EPA asked ATSDR to offer blood and urine testing for people in the community to measure lead and arsenic levels.

ATSDR is planning to offer free, voluntary blood lead and urine arsenic testing for up to 200 people who live in Hayden and Winkelman.

- Children between the ages of 9 months to 11 years will be eligible for blood lead testing.
- Children between the ages of 6 years to 11 years will be eligible for urine arsenic testing.
- Pregnant women of any age will be also eligible to participate in both blood lead and urine arsenic testing.

#### **Why is ATSDR offering this testing?**

ATSDR plans to offer this testing to determine if children and pregnant women (people at higher risk) are being exposed to lead and arsenic. This information will help government agencies and community members take steps to reduce exposure to arsenic and lead in the community, if necessary.

#### **How can people be exposed to lead and arsenic in the area?**

- People may be exposed by breathing air that is contaminated with arsenic or lead.
- People may also be exposed if they eat small amounts of contaminated soil, dust, or lead-based paint by accident. Young children are more at risk than adults because they play in areas where soil, dust, and paint may be found and then put toys and hands in their mouths.

#### **What are the possible health effects of exposure to lead and arsenic?**

- Lead exposure can cause learning and behavior problems in children and many other health effects. Some of the effects of exposure to lead may never go away.
- Arsenic exposure can cause stomachache, nausea, and skin problems. Arsenic exposure over many years also raises the risk of cancer of the bladder, lung, liver, and skin.

## For More Information

### *EPA Contacts*

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EPA Community Involvement  
Coordinator  
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EPA Remedial Project Manager  
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### *Agency for Toxic Substances and Disease Registry Contact*

**Jamie Rayman**  
Health Educator, Region 9  
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### *Arizona Department of Environmental Quality Contact*

**Wendy Flood**  
ADEQ Community Involvement Coordinator  
(602) 771-4410  
[flood.wendy@azdeq.gov](mailto:flood.wendy@azdeq.gov)

## Information Repositories

EPA has established two information repositories for community members. Documents are available for review at:

**Hayden Public Library**  
175 5<sup>th</sup> Street  
Hayden, AZ 85235

**Arthur E. Pomeroy Public Library**  
912-A Tilbury Road  
Kearny, AZ 85237

### *Visit the EPA website for Asarco Hayden at:*

[www.epa.gov/region09/AsarcoHaydenPlant](http://www.epa.gov/region09/AsarcoHaydenPlant)

### *ADEQ's website at:*

[http://www.azdeq.gov/environ/waste/sps/ASARCO\\_Hayden\\_Plant.html](http://www.azdeq.gov/environ/waste/sps/ASARCO_Hayden_Plant.html)

United States Environmental Protection Agency  
Region 9  
75 Hawthorne Street (SFD-6-3)  
San Francisco, CA 94105  
Attn: Sarah Cafasso (Asarco 10/14)

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October 21 at 6:00 PM & October 22 at 10:00 AM  
Hayden Senior Center  
520 Velasco Ave, Hayden, AZ 85135

**You're Invited to a Public Meeting!**

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