



# Iron King Mine & Humboldt Smelter Superfund Site

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## Cleanup Documents Available for Review

The public is invited to review the latest cleanup documents that will help EPA choose methods for addressing waste at the Iron King Mine – Humboldt Smelter Superfund site.

These documents are the Data Evaluation Summary report, the Remedial Alternatives Evaluation Technical Memorandum, and the Closure Cover Alternatives Evaluation for the Iron King Mine Tailings Pile.

Copies of these documents are available in the information repository at the Dewey-Humboldt Town Library, located at 2735 S. Corral Street, Dewey-Humboldt, Arizona. They can also be found online at <http://www.epa.gov/region09/ironkingmine>.



### Soil Sampling Results

In May and July 2010, EPA collected about 1200 soil samples from residential areas, 39 groundwater samples, and 30 additional background soil samples. This information is compiled in the Data Evaluation Summary Report (DESR). The DESR: (1) compiles, tabulates, and summarizes the data; (2) discusses the usability of the data, including data validation summaries; and (3) discusses any discrepancies or data quality issues.

This report helps EPA understand where site contamination has come to be located throughout the area and assists EPA in determining the kinds of cleanup technologies that should be considered during the next phase of the Superfund process: the Feasibility Study.

### Cleanup Technologies Screening Memo

Before EPA can develop its cleanup plan, it must first look at the many possible cleanup techniques that could apply. Some technologies work better than others, so EPA conducts an initial screening that results in the Remedial Alternatives Evaluation Technical Memorandum.

Within this document, the EPA may screen out certain technologies and/or techniques to reduce the number of alternatives that will be analyzed in the Feasibility Study. The screening process evaluates the alternatives' effectiveness, implementability, and cost. The cleanup alternatives that are carried into the Feasibility Study will be assessed against Superfund's evaluation criteria. A detailed cost estimate will also be prepared for each alternative.

The Remedial Alternatives Evaluation Technical Memorandum:

- Identifies remedial action objectives
- Identifies potential treatment, resource recovery, and containment technologies that will satisfy these objectives
- Screens technologies based on their effectiveness, implementability, and cost
- Assembles technologies and their associated containment or disposal requirements into remedial alternatives for the contaminated media

# Iron King Mine Tailings Pile Evaluation Report

An engineering evaluation was conducted to address the Iron King Mine Main Tailings Pile, which contains two tailings dams. Remedial alternatives include contouring or otherwise stabilizing the tailings pile, followed by some form of capping to prevent migration of tailings into surrounding areas via air particulate and storm water migration. The engineering evaluation includes the following elements:

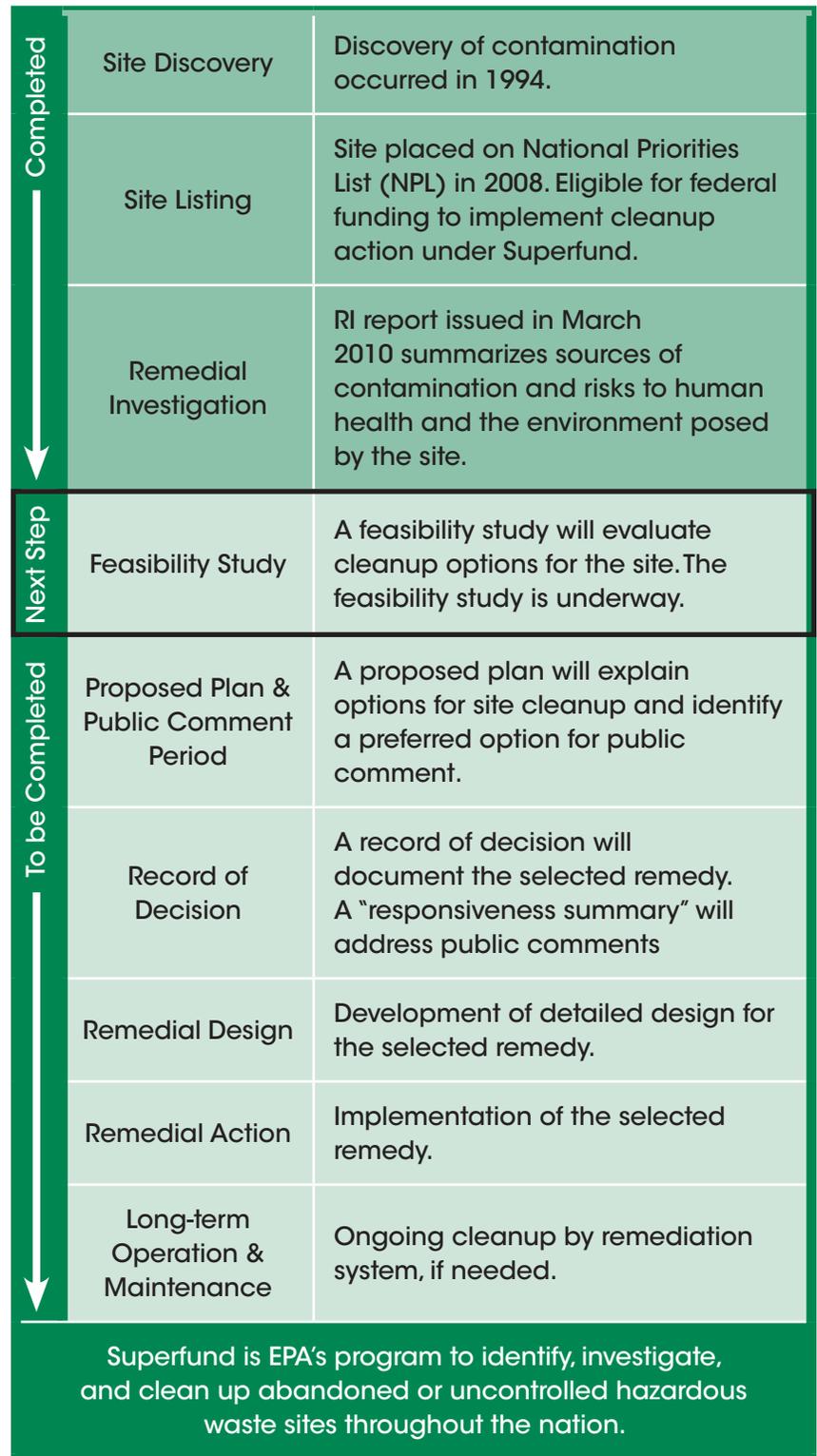
- Review existing conditions and data (e.g., chemical and geotechnical samples)
- Identify additional data needed to fully characterize the tailings pile
- Identify a series of data collection activities to fill the identified data gaps (e.g., borings, transects, etc.)
- Identify potential tailings dam stabilization construction and capping techniques, their associated long-term operation and monitoring needs, and costs

## Community Involvement

In addition to the hard copy documents in the Dewey-Humboldt Town Library and EPA's website, EPA provides funds to a community nonprofit for an independent technical expert to help the public understand the cleanup documents. If you would like to know more about this process, you may contact Rose Eitemiller of the Community Coalition of Dewey-Humboldt at (928) 308-9324 or [dhsmelter@gmail.com](mailto:dhsmelter@gmail.com).

EPA plans to conduct a community update meeting in Winter 2011. A fact sheet will be sent to EPA's mailing list for the site. To be added to the mailing list, contact David Cooper (see Page 3).

**Figure 1.** The Superfund Process for the Iron King Mine - Humboldt Smelter Superfund Site



Please send any questions or comments to  
Monika O'Sullivan (contact information below).

## Contact Information

If you have questions or concerns, please contact any of the following individuals:

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## Information Repository

For site documents, please visit the information repository at:

**Dewey-Humboldt Town Library**  
2735 S. Corral Street  
Dewey-Humboldt, AZ

Please visit EPA's and ADEQ's  
Iron King Mine and Humboldt  
Smelter site websites at:



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

[http://www.azdeq.gov/environ/waste/sps/  
statesites.html#ironking](http://www.azdeq.gov/environ/waste/sps/statesites.html#ironking)



## Mailing List Coupon

If you are not already on EPA's mailing list for the Iron King Mine – Humboldt Smelter Superfund Site, please send an e-mail or return the coupon below to David Cooper.

Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

City, State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone (optional) \_\_\_\_\_

E-mail (optional) \_\_\_\_\_

Affiliation (optional) \_\_\_\_\_

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