



Final Projects

Listed below are a few options for projects the students could present at the science fair:

Report:

Write a 3 to 4 page report on the history of the Black Butte Mine. This report could discuss the following:

- History of the Black Butte Mine
 - When was it constructed? What did it produce? What was the demand for mercury?
- What is mercury?
 - Historical uses
 - Current uses
- How are humans exposed to mercury from the Black Butte Mine in Cottage Grove?
- What are the current projects going on to address the mercury contamination in Cottage Grove?

This could also be broken up into short sections for multiple projects or group projects. Students should be creative, using art to help tell the history

Oral History:

- Interview Cottage Grove residents to understand the history of the Black Butte Mine

Timeline:

- Create a timeline of the Black Butte Mine

Projects:

- Create a mercury food chain diagram for a place in Cottage Grove
- Present the results of citizen science project sampling
- Create a multimedia project (video, PowerPoint, etc.) about safety procedures in the field
- Short stories about mercury in the environment, history of Black Butte Mine, etc.

Events:

- Host a science fair for the community
- Invite special guests from the EPA, OSU, CD Smith, or older residents who remember the mine to share resources, information, or judge students' posters.

Art:

- Create artwork related to mercury and the Black Butte Mine to have on display at the school or local library.
- Take digital photos of the art and share it on-line.
- Create a storybook with the artwork about mercury and the mine to share with other schools.

Resources:

Black Butte Mine (Environmental Protection Agency)

<http://yosemite.epa.gov/R10/CLEANUP.NSF/sites/bbm> [Date accessed: 05.14.14]

Case Study: Black Butte Mercury Mine Lane County, OR (Interstate Technology & Regulatory

Council) http://www.itrcweb.org/miningwaste-guidance/cs16_black_butte.htm [Date accessed: 05.14.14]

Black Butte Mine (Oregon Department of Environmental Quality)

<http://www.deq.state.or.us/Webdocs/Forms/Output/FPController.ashx?SourceId=1657&SourceIdType=11> [Date accessed: 05.14.14]

“History of Black Butte Mine in Cottage Grove, OR” produced by Oregon State University. [Will be on the SRP site: <http://superfund.oregonstate.edu/mercury>]

Black Butte Mine – Lane County (Oregon Health Authority, Public Health)

<http://public.health.oregon.gov/healthyenvironments/trackingassessment/environmentalhealthassessment/pages/bbmsite.aspx> [Date accessed: 05.14.14]

EPA proposes putting Oregon’s Black Butte mercury min on Superfund cleanup list.

(OregonLive.com)

http://www.oregonlive.com/environment/index.ssf/2009/09/epa_to_put_oregons_black_butte.html [Date accessed: 05.14.14]

Black Butte Mine Summary (Oregon Health Authority)

<http://library.state.or.us/repository/2012/201205011330382/index.pdf> [Date accessed: 05.14.14]

Public Health Assessment: Black Butte Mine (Oregon Health Authority Environmental Health Assessment Program)

<http://www.atsdr.cdc.gov/HAC/pha/BlackButteMine/BlackButteMinePHAPC04252012.pdf> [Date accessed: 05.14.14].

Very dense report, but excellent pictures and historical overview

Black Butte Mine Superfund Project Update #3 (Environmental Protection Agency)

<http://www.cottagegrove.org/oldupdates/BBM+Update+3+Aug+2013a.pdf>

Mining records – Lane County (Oregon Historical Mining Information)

<http://www.oregongeology.org/sub/milo/archive/MiningDistricts/LaneCounty/BlackButteDistrict/BlackButteMine/BlackButteMineLetters.pdf> [Date accessed: 05.14.14]

EPA has established an Information Repository at the Cottage Grove Library

Cottage Grove Library

700 Gibbs Avenue

Cottage Grove, OR