#### Montana Tech Library

## Digital Commons @ Montana Tech

Silver Bow Creek/Butte Area Superfund Site

Montana Superfund

Winter 1-12-2024

## Remedial Action Work Plan Silver Bow Montessori

Environmental Resource Management (ERM)

Follow this and additional works at: https://digitalcommons.mtech.edu/superfund\_silverbowbutte Part of the Environmental Health and Protection Commons, Environmental Indicators and Impact Assessment Commons, and the Environmental Monitoring Commons

## **Atlantic Richfield Company**

Mike McAnulty Liability Manager

January 13, 2024

Nikia Greene Remedial Project Manager US EPA – Montana Office Baucus Federal Building 10 West 15th Street, Suite 3200 Helena, Montana 59626 Erin Agee Senior Assistant Regional Counsel US EPA Region 8 Office of Regional Counsel CERCLA Enforcement Section 1595 Wynkoop Street Denver, CO 80202 Mail Code: 80RC-C

Daryl Reed DEQ Project Officer P.O. Box 200901 Helena, Montana 59620-0901 Jonathan Morgan, Esq. DEQ, Legal Counsel P.O. Box 200901 Helena, Montana 59620-0901

# RE: Residential Metals Abatement Program – Interior School Dust - Remedial Action Work Plan – Silver Bow Montessori

Agency Representatives:

I am writing to you on behalf of Atlantic Richfield Company to submit the approved final 2024 Residential Metals Abatement Program *Remedial Action Work Plan – Silver Bow Montessori*. Revisions were made in response to comments received 3 January 2024.

The plan may be downloaded at the following link:

https://theermgroupnam-

my.sharepoint.com/:f:/g/personal/thomas\_beckman\_erm\_com/ErpAQXNC2g5FvdGSQFwFGmIBHm a9si3rpaNw3RHVIUiV4g?e=4Lwfbe

If you have any questions or comments, please call me at (907) 355-3914.

Sincerely,

Mike Mednulty

Mike McAnulty Liability Manager Remediation Management Services Company An Affiliate of **Atlantic Richfield Company** 



317 Anaconda Road Butte MT 59701

Direct (406) 782-9964 Fax (406) 782-9980



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8, MONTANA OFFICE

FEDERAL BUILDING, 10 West 15<sup>TH</sup> Street, Suite 3200 Helena, MT 59626-0096 Phone 866-457-2690 www.epa.gov/region8

Ref: 8MO

January 3, 2023

Mr. Mike McAnulty Liability Manager Atlantic Richfield Company 317 Anaconda Road Butte, Montana 59701

#### Re: Approval letter for the Butte Priority Soils Operable Unit (BPSOU) Residential Metals Abatement Program (RMAP) Silver Bow Montessori Soil Remedial Action Work Plan (dated November 7, 2023)

Dear Mike:

The U. S. Environmental Protection Agency (EPA), in consultation with the Montana Department of Environmental Quality (DEQ), is approving the *Residential Metals Abatement Program (RMAP) Silver Bow Montessori Remedial Action Work Plan (RAWP)* (dated November 7, 2023). Please address these comments and distribute as final.

#### Comments

- 1. <u>Section 4.1.1 Dust Remediation:</u> Please provide examples or clarify what materials would qualify as porous.
- 2. <u>Section 4.1.1 Dust Remediation:</u> Please identify the specific disposal site for the materials.

If you have any questions or concerns, please call me at (406) 457-5019.

Sincerely,



Digitally signed by NIKIA GREENE Date: 2024.01.03 13:31:58 -07'00'

Nikia Greene Remedial Project Manager

**Butte File** Chris Greco / Atlantic Richfield Josh Bryson / Atlantic Richfield Mike Mc Anulty / Atlantic Richfield Loren Burmeister / Atlantic Richfield Dave Griffis / Atlantic Richfield Jean Martin / Atlantic Richfield Irene Montero / Atlantic Richfield David A. Gratson / Environmental Standards Mave Gasaway / DGS Adam Cohen / DGS Brianne McClafferty / Holland & Hart Daryl Reed / DEQ Kevin Stone / DEQ Logan Dudding / DEQ Amy Steinmetz / DEQ Dave Bowers / DEO Katie Garcin-Forba / DEQ Doug Martin / NRDP Jim Ford / NRDP Pat Cunneen / NRDP Katherine Hausrath / NRDP Ted Duaime / MBMG Gary Icopini / MBMG Becky Summerville / MR John DeJong / UP Robert Bylsma / UP John Gilmour / Kelley Drye Leo Berry / BNSF Robert Lowry / BNSF Brooke Kuhl / BNSF Lauren Knickrehm / BNSF Doug Brannan / Kennedy Jenks Matthew Mavrinac / RARUS Harrison Roughton / RARUS Brad Gordon / RARUS Mark Neary / BSB Eric Hassler / BSB Brandon Warner / BSB Abigail Peltomaa / BSB Eileen Joyce / BSB Sean Peterson/BSB Josh Vincent / WET Scott Bradshaw / W&C Emily Evans / W&C Pat Sampson / Pioneer Andy Dare / Pioneer

Karen Helfrich / Pioneer Randa Colling / Pioneer Scott Sampson / Pioneer Ian Magruder/ CTEC CTEC of Butte Scott Juskiewicz / Montana Tech David Shanight / CDM Smith Curt Coover / CDM Smith Chapin Storrar / CDM Smith Erin Agee / EPA Will Lindsey / EPA Jamie Miller / EPA Carolina Balliew / EPA Chris Wardell / EPA Dana Barnicoat / EPA Charles Van-Otten / EPA Charlie Partridge / EPA Scott Juskiewicz / Montana Tech Library



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8, MONTANA OFFICE FEDERAL BUILDING, 10 West 15<sup>TH</sup> Street, Suite 3200 Helena, MT 59626-0096 Phone 866-457-2690 www.epa.gov/region8

Ref: 8MO

January 3, 2023

Mr. Mike McAnulty Liability Manager Atlantic Richfield Company 317 Anaconda Road Butte, Montana 59701

#### Re: Approval letter for the Butte Priority Soils Operable Unit (BPSOU) Residential Metals Abatement Program (RMAP) Silver Bow Montessori Soil Remedial Action Work Plan (dated November 7, 2023)

Dear Mike:

The U. S. Environmental Protection Agency (EPA), in consultation with the Montana Department of Environmental Quality (DEQ), is approving the *Residential Metals Abatement Program (RMAP) Silver Bow Montessori Remedial Action Work Plan (RAWP)* (dated November 7, 2023). Please address these comments and distribute as final.

#### Comments

1. <u>Section 4.1.1 Dust Remediation:</u> Please provide examples or clarify what materials would qualify as porous.

ERM response: Section 4.1.1 has been revised with examples of porous materials.

Section 4.1.1 Dust Remediation: Please identify the specific disposal site for the materials.
 ERM response: Section 4.1.1 has been revised to include disposal at the Butte-Silver Bow Landfill.

If you have any questions or concerns, please call me at (406) 457-5019.

Sincerely,

## NIKIA GREENE

Nikia Greene

Digitally signed by NIKIA GREENE Date: 2024.01.03 13:31:58 -07'00'



Remedial Project Manager

Butte File

Chris Greco / Atlantic Richfield Josh Bryson / Atlantic Richfield Mike Mc Anulty / Atlantic Richfield Loren Burmeister / Atlantic Richfield Dave Griffis / Atlantic Richfield Jean Martin / Atlantic Richfield Irene Montero / Atlantic Richfield David A. Gratson / Environmental Standards Mave Gasaway / DGS Adam Cohen / DGS Brianne McClafferty / Holland & Hart Daryl Reed / DEQ Kevin Stone / DEQ Logan Dudding / DEQ Amy Steinmetz / DEQ Dave Bowers / DEQ Katie Garcin-Forba / DEQ Doug Martin / NRDP Jim Ford / NRDP Pat Cunneen / NRDP Katherine Hausrath / NRDP Ted Duaime / MBMG Gary Icopini / MBMG Becky Summerville / MR John DeJong / UP Robert Bylsma / UP John Gilmour / Kelley Drye Leo Berry / BNSF Robert Lowry / BNSF Brooke Kuhl / BNSF Lauren Knickrehm / BNSF Doug Brannan / Kennedy Jenks Matthew Mavrinac / RARUS Harrison Roughton / RARUS Brad Gordon / RARUS Mark Neary / BSB Eric Hassler / BSB Brandon Warner / BSB Abigail Peltomaa / BSB Eileen Joyce / BSB Sean Peterson/BSB Josh Vincent / WET

Scott Bradshaw / W&C Emily Evans / W&C Pat Sampson / Pioneer Andy Dare / Pioneer Karen Helfrich / Pioneer Randa Colling / Pioneer Scott Sampson / Pioneer Ian Magruder/ CTEC CTEC of Butte Scott Juskiewicz / Montana Tech David Shanight / CDM Smith Curt Coover / CDM Smith Chapin Storrar / CDM Smith Erin Agee / EPA Will Lindsey / EPA Jamie Miller / EPA Carolina Balliew / EPA Chris Wardell / EPA Dana Barnicoat / EPA Charles Van-Otten / EPA Charlie Partridge / EPA Scott Juskiewicz / Montana Tech Library



Atlantic Richfield Company

## **Remedial Action Work Plan**

Silver Bow Montessori

12 January 2024 Project No.: 0643586



#### **Signature Page**

12 January 2024

## **Remedial Action Work Plan**

Silver Bow Montessori

Thomas f. Becknam

Thomas J. Beckman Partner

DZ

Christopher Berg Project Manager

Environmental Resources Management, Inc. 900 E. Benson Blvd. Suite 480 Anchorage, AK 99508

T: +1 925 946 0455 F: +1 907 258 4033

© Copyright 2024 by The ERM International Group Limited and/or its affiliates ('ERM'). All Rights Reserved. No part of this work may be reproduced or transmitted in any form or by any means, without prior written permission of ERM.

#### CONTENTS

1.	INTRO	DUCTION	l	1
2.	снос	OL INDO	DR DUST REMEDIATION SCOPE	1
3.	снос	OL DUST	REMEDIATION SCHEDULE	1
4.	REME	DIAL ACT	ION WORK PLAN	1
	4.1	Silver Boy	v Montessori Remedial Action	.1
		4.1.1	Dust Remediation	.2
	4.2	Post-Rem	ediation Monitoring	.2
5.	REFER	ENCES.		3

#### FIGURES

APPENDIX A	PHOTOGRAPHIC LOG
APPENDIX B	EDUCATIONAL MATERIALS

#### **Tables**

Table 1 Silver Bow Montessori Property Information......1

#### **Figures**

Figure 1: Silver Bow Montessori Site Location Figure 2: Silver Bow Montessori RA Work Area

#### **Acronyms and Abbreviations**

ERM	Environmental Resources Management, Inc.
HEPA	High-Efficiency Particulate Air
ICIAP	Institutional Control Implementation and Assurance Plan
QAPP	Quality Assurance Project Plan
RA	Remedial Action
RAWP	Remedial Action Work Plan
RMAP	Residential Metals Abatement Program
USEPA	United States Environmental Protection Agency

#### 1. INTRODUCTION

This Remedial Action Work Plan (RAWP) was developed to outline a portion of the remedial action (RA) work resulting from the 2022 Residential Metals Abatement Program (RMAP) indoor school dust sampling events completed from May through July 2022. The sampling events were conducted in accordance with the Final Residential Metals Abatement Program (RMAP) Quality Assurance Project Plan (QAPP) (Non-Residential Parcels – Indoor Dust) (Atlantic Richfield Company, 2022 and the RMAP Field Sampling Plan – Indoor Dust – Group 1), 2022.

#### 2. SCHOOL INDOOR DUST REMEDIATION SCOPE

The scope of work covered by this RAWP includes Silver Bow Montessori, located at 1800 Sunset Road Butte, Montana (Table 1, Figure 1).

Count	Res-ID	Geocode	Name	Physical Address	Owner	Construction Date
5	S-0015	01109506106060000	Silver Bow Montessori	1800 Sunset Road, Butte, MT 59701	Montessori Campus LLC	1947

#### Table 1 Silver Bow Montessori Property Information

#### 3. SCHOOL DUST REMEDIATION SCHEDULE

This scope of work is anticipated to be completed between December 2023 and February 2024. Coordination work is on-going with relevant stakeholders. Anticipated deadlines for remedial action are as follows and are contingent on the timing of United States Environmental Protection Agency (USEPA) approvals:

- Planning and access coordination December 2023
- Remedy implementation January 2024
- Reporting February 2024

#### 4. REMEDIAL ACTION WORK PLAN

#### 4.1 Silver Bow Montessori Remedial Action

Remediation at Silver Bow Montessori will target the basement, outlined in Figure 2. Lead was detected in exceedance of the Butte Priority Soils Site-Specific Residential Action Level for surface dust in a floor surface dust sample (S-0015-D-F-01-20220617) from the basement furnace room, prompting the need for remedial action.

Access to the basement is through the main east building, down a stairwell adjacent to the southeast classroom. Access is currently restricted to Silver Bow Montessori staff. The basement is approximately 1,100 square foot area, has two storage closets and a furnace/boiler room. The basement is primarily used for storage of school supplies, books, shelves, and plastic storage containers. The furnace/boiler room has an exposed earthen area adjacent to the furnace unit. In July 2023, a three-point composite soil

sample was taken from the exposed earthen area, and no constituents were detected above the Butte Priority Soils Site-Specific Residential Action Levels. See Appendix A for photographs of the basement.

After remedial action work, school officials will be provided a post construction understanding of the risks of bringing personal materials to basement storage and the potential of these materials to transfer metal impacted dust will be distributed to the Silver Bow Montessori staff. A Construction Completion Report will be submitted to USEPA once all remedial actions have been completed.

#### 4.1.1 Dust Remediation

Remediation of dust is necessary due to a lead concentration detected in exceedance of the Butte Priority Soils Site-Specific Residential Action Levels for indoor dust in a floor surface sample location in the basement. This remediation will prevent the migration of particulates and dust from the basement to the occupied areas of the school.

Porous materials (items composed of paper, cardboard, untreated wood, fabrics, sponges) stored in the basement will be collected and disposed of accordingly. Large porous materials will be wrapped in heavyduty plastic (6-milimeter plastic or similar sheeting that will resist puncture) and placed in a designated waste container. Smaller porous debris and materials will be placed directly into industrial garbage bags and placed in the designated waste container. After all materials are removed, accumulated dust will be wiped from horizontal surfaces and pipe chases, working from higher to lower surfaces. Following the initial wipe down, a high-efficiency particulate air (HEPA) vacuum will be used to clean all surfaces including ceilings, shelves, doors, and floors, again working from higher to lower surfaces. Once vacuuming is complete, all surfaces will be wiped down once more to ensure no dust is left behind. Wipes and filters from this remedial action work will be placed in sealed waste bags before being transported out of each area for proper disposal.

At the conclusion of cleaning, the remediated areas will be visually inspected to ensure that all visible dust and debris has been removed. If dust is detected, the areas will be cleaned again, following the same protocol as the prior cleaning. The outside of the garbage bags and large materials wrapped in heavy-duty plastic will be decontaminated with detergent cleaning material and disposable towels before being removed from the basement. All materials removed from the basement area (garbage bags, wrapped materials) will be placed in dumpsters outside of the school. The contents of these dumpsters are disposed of at the Butte-Silver Bow Landfill.

Following remedial action activities, educational materials describing the risks of bringing personal materials to basement storage and the potential of these materials to transfer metal impacted dust will be distributed to the Silver Bow Montessori staff. These materials are shown in Appendix B.

#### 4.2 Post-Remediation Monitoring

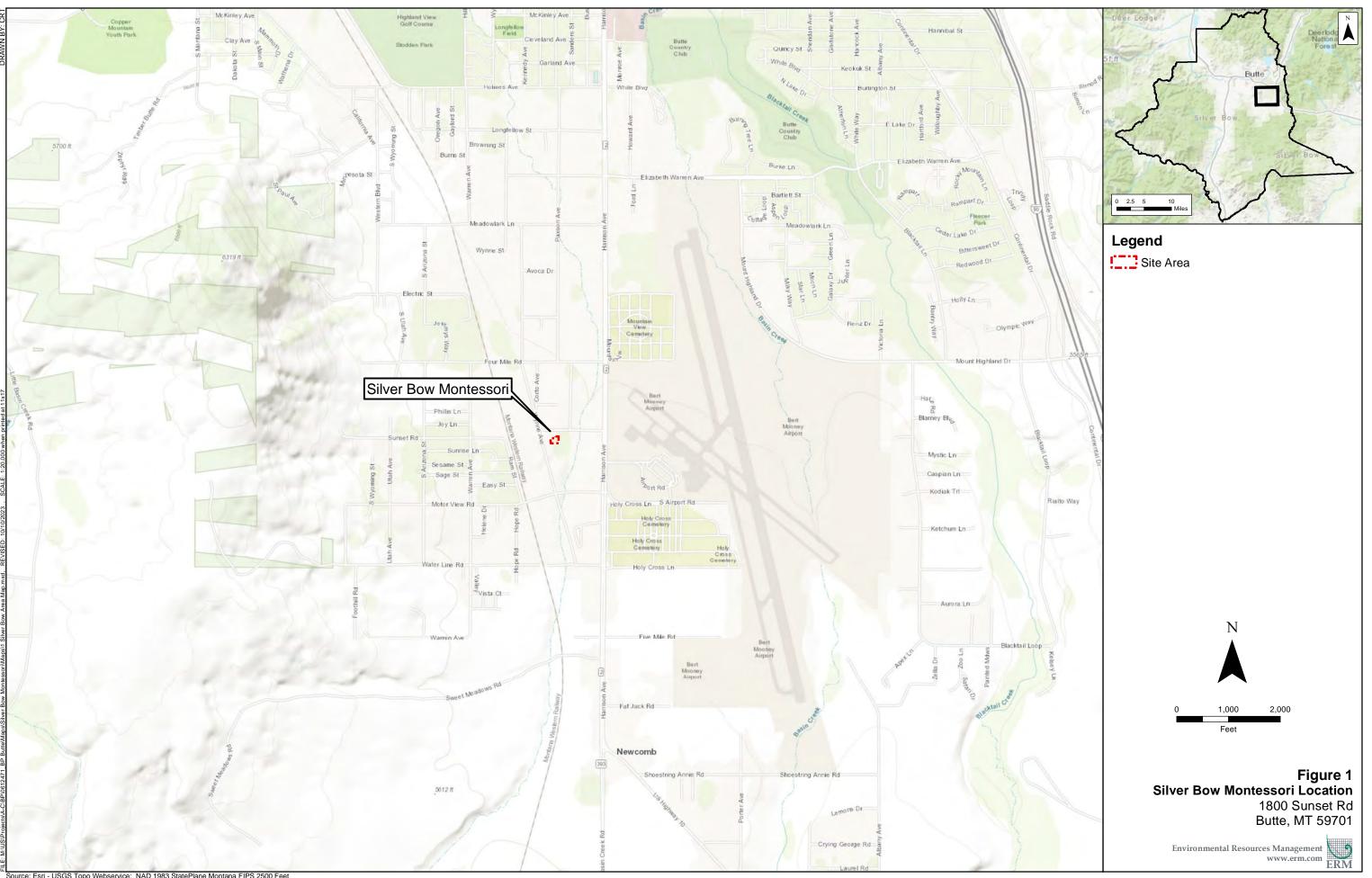
The basement will be inspected, and floor surface dust samples will be collected and analyzed for lead one year after the area is cleaned. Post-cleaning monitoring and reporting will be conducted by Atlantic Richfield Company in accordance with the QAPP. An Investigation and Data Summary Report will be prepared and submitted to USEPA following completion of the post-remediation monitoring.

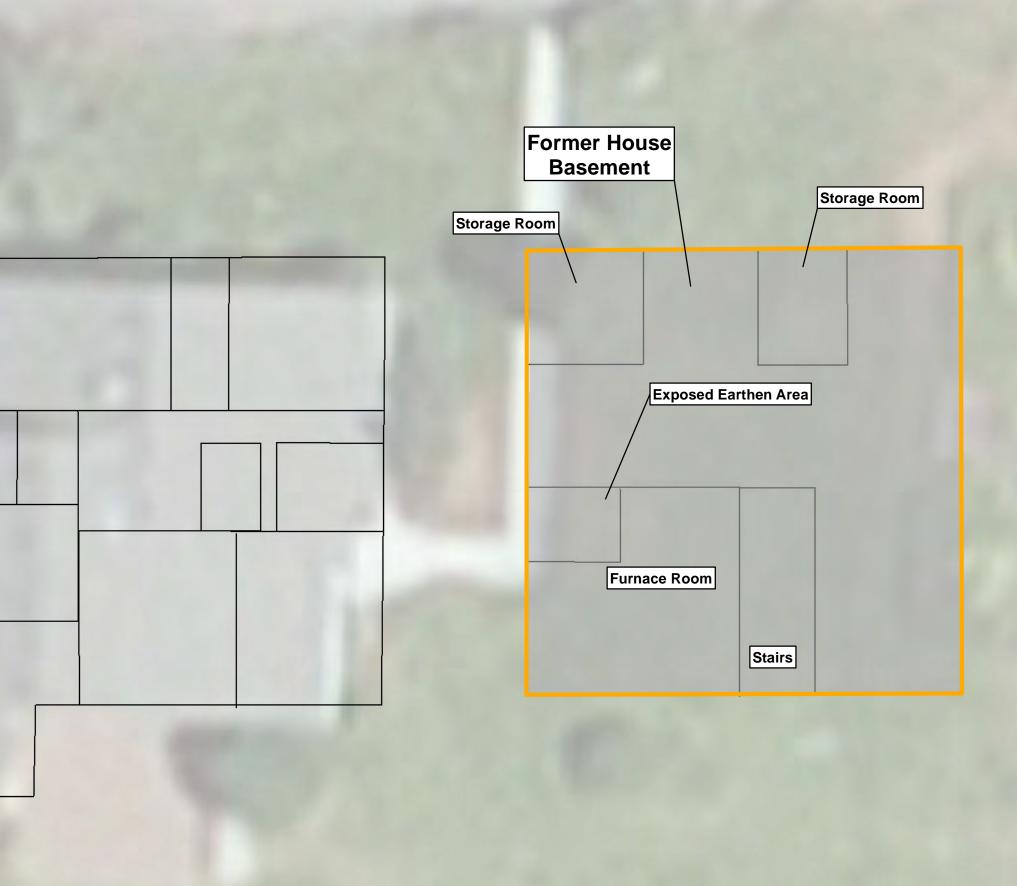
#### 5. **REFERENCES**

- Atlantic Richfield Company, 2019. Silver Bow Creek/Butte Are NPL Site Butte Priority Soils Operable Unit Final Institutional Controls Implementation and Assurance Plan. October 2019.
- Atlantic Richfield Company, 2022a. Residential Metals Abatement Program Quality Assurance Project Plan (Non-Residential Parcels – Indoor Dust). October 2022.
- Atlantic Richfield Company, 2022b. Residential Metals Abatement Program Field Sampling Plan Indoor Dust – Group 1. May 2022.

**FIGURES** 







Source: Esri - USGS Topo Webservice; NAD 1983 StatePlane Montana FIPS 2500 Feet



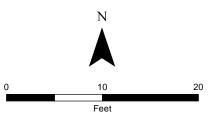


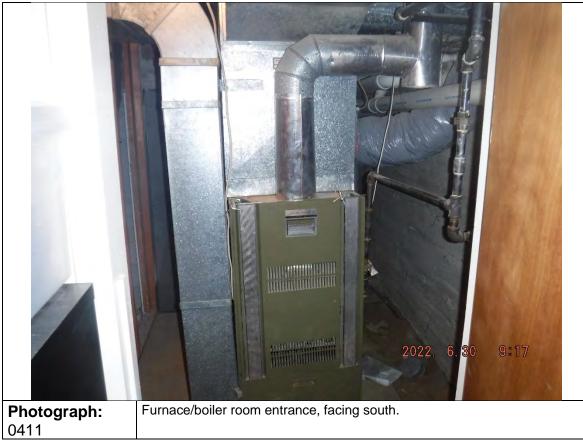
Figure 2 Silver Bow Montessori Basement RA Work Area 1800 Sunset Rd Butte, MT 59701

Environmental Resources Management www.erm.com

APPENDIX B EDUCATIONAL MATERIALS







	Butte RMAP
	Silver Bow Montessori
ERM	ERM Project Number 0643586

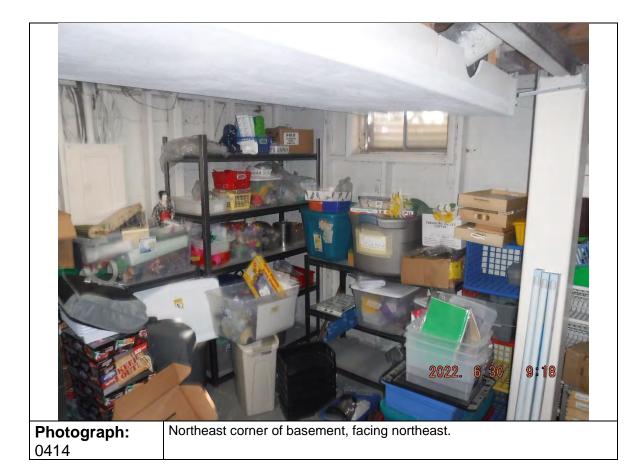


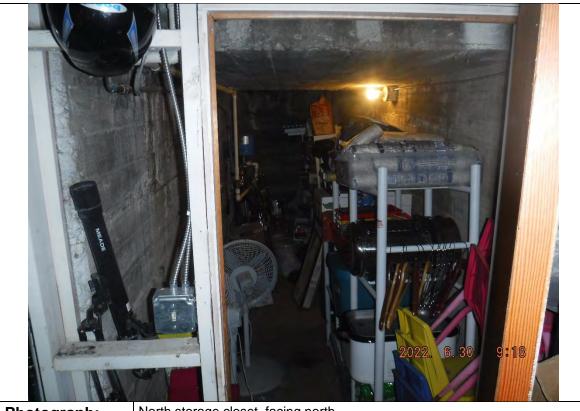


Photograph: 0413

South area of basement, facing east.

	Butte RMAP
	Silver Bow Montessori
ERM	ERM Project Number 0643586





Photograph: 0415

North storage closet, facing north.

 Butte RMAP

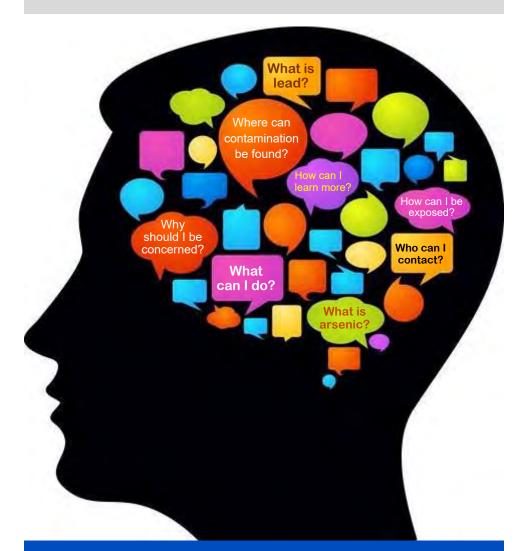
 Silver Bow Montessori

 ERM
 ERM Project Number 0643586

APPENDIX A PHOTOGRAPHIC LOG



# Be Contaminant Smart



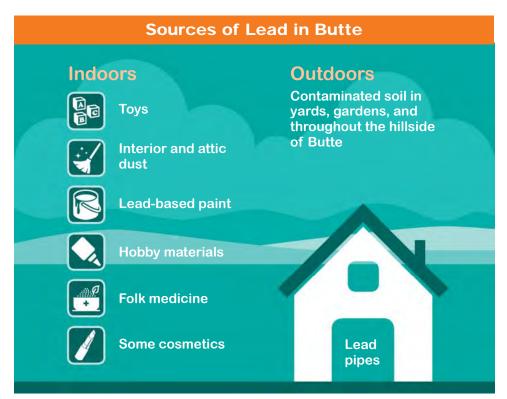
Help protect yourself, your family, and your community from mining-related contamination in Butte, Montana

## **Be Safe and Avoid Mining Impacts**

Land in and around Butte has been impacted by over a century of mining, leaving potentially harmful contamination. Cleanup measures are in place to ensure that people are protected from mining contamination and to work together for comprehensive public health and wellness. **You can help!** There are steps you can take to protect yourself and your family.

## Lead

Lead is the primary contaminant of concern in Butte. It is a naturally occurring element in the earth's crust and is found in higher soil concentrations in Butte because of historic mining activity. There are also many possible sources of lead in the home.

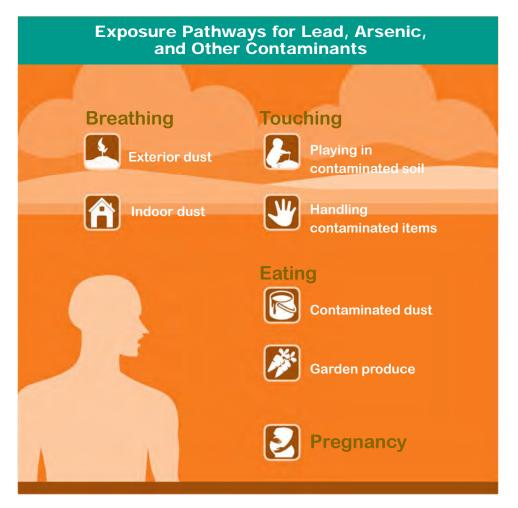


### **Arsenic and Other Metals**

Arsenic and, to a lesser extent, copper, aluminum, cadmium, iron, mercury, and zinc are also contaminants found in Butte. Like lead, they are naturally occurring elements in the earth's crust and found in higher concentrations in Butte because of historic mining activity.

## **Exposure Pathways**

Exposure pathway is the term used to describe how people come in contact with a contaminant. In Butte, the exposure pathways for lead, arsenic, and the other contaminants of concern are similar. They include breathing, touching, and eating. For lead, exposures can also occur to the fetus during pregnancy causing reduced growth and premature birth.



# Sampling and testing are the only way to know if your soil is contaminated.

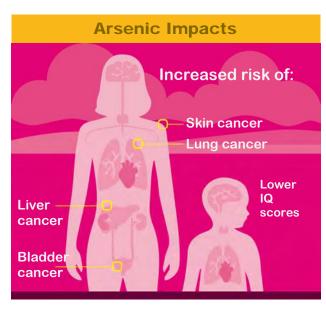
## **Understanding Health Impacts**

Lead is a poisonous metal that can cause learning, hearing, and behavioral problems. While it has beneficial uses, it can be toxic to humans and animals and can cause adverse health effects.

Lead can accumulate in our bodies over time. It is stored in bones along with calcium. **Children are more at risk from lead!** Exposure to lead can harm a child's brain, kidneys, and other organs. Children 6 years and younger are most susceptible since their nervous systems are still developing.

Even low levels of lead in the blood of children can result in serious problems. Children with elevated





blood-lead levels usually do not look or act sick. The only way to know if your child has lead poisoning is by getting a blood test.

Like lead, exposure to arsenic can be bad for your health. Arsenic is a known carcinogen and can impact the skin, bladder, liver and lungs. Some studies have also shown that arsenic exposure in children can result in lower IQ scores.

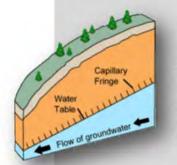
## Working Together

People are working together in Butte to ensure residents are protected from lead and arsenic and other potentially harmful contamination. Community groups, the City and County of Butte-Silver Bow, the Montana Department of Environmental Quality, and the U.S. Environmental Protection Agency Superfund Program are cooperating to address the contamination and promote education and blood-lead testing to protect human health and the environment.

## **The Plan For Protection: Water**

#### **Drinking Water**

Water from Butte faucets is not contaminated and comes from sources outside of Butte, including the upgraded Basin Creek Reservoir. It is safe to drink and routinely tested.



#### Groundwater

In certain areas of Butte, groundwater is contaminated. Use of this groundwater is restricted to prevent exposure and it is not allowed to be used for drinking. The contaminated groundwater is captured and treated before it is discharged into streams.

### Surface and Storm Water

Water that flows through Butte in creeks after rain and snow melt can transport surface contamination that is potentially harmful to aquatic life. The plan is to manage this water to reduce spreading contamination around Butte.



## **The Plan For Protection: Soil**

#### Removal

- Millions of cubic yards of mine tailings and contaminated soil in Butte have been removed to prevent human exposure.
- Removals include contaminated yard soils and interior sources of lead such as lead paint and attic dust through Butte-Silver Bow's Residential Metals Abatement Program (RMAP).
- Removal actions are ongoing in Butte.

#### The RMAP Will:

- Sample and analyze your home and yard.
- Clean up contaminated attic dust, indoor dust, yards and lead paint if needed.
- Provide these services free and with minimal disruption to the home occupant.



Learn more about the program by calling 406-497-5040 or visiting the RMAP website.

## Capping

- Potentially hazardous contaminated soil that is not removed is covered with a protective layer of clean soil.
- These "caps" are maintained by Butte-Silver Bow County and are monitored using the Butte Reclamation and Evaluation System to ensure they are protective.
- The Butte Reclamation and Evaluation System is:
  - \* Implemented in cooperation with the Clark Fork Watershed Education Program.
  - \* Responsible for evaluating all reclaimed areas (25 percent of all sites evaluated annually).
  - \* Responsible for correcting protective cap problems under EPA approved work plans.

## **The Plan For Protection: Programs**

## **Blood Lead Screening**

• Available to all county residents at no charge through Butte-Silver Bow's Women, Infants, and Children Program (406-497-5060).

## **Public Education**

• Projects are ongoing in Butte through community outreach by public, private, and non-profit groups.



- Offers and encourages free blood-lead testing at the County Health Department.
- Reports all elevated results to the RMAP for further evaluation.
- Provides a range of resources to improve health and nutrition to women, infants, and children up to 5 years of age.







## **Be Contaminant Smart: Family**

Contamination from historic mining will remain in Butte even after cleanup is complete. In addition to the cleanup measures, there are things you can do to for your family to be contaminant smart.

## **Choose a Healthy Diet**

- Eat iron-rich foods. Normal iron levels protect the body from lead. Good sources of iron are lean meats, fortified cereals, and dried fruits.
- Eat calcium-rich foods. Calcium reduces lead absorption. Good sources of calcium are green leafy vegetables, milk, and cheese.
- Eat regularly. Children with empty stomachs absorb more lead. Provide children 4 to 6 small meals during the day.

### **Properly Prepare Garden Produce**

- Keep preparation surfaces clean.
- Wash produce to remove soil.
- Throw away the outer leaves of leafy vegetables and peel root crops to remove the skin and any residual soil.

## **Test Your Kids for Lead**

• Enroll in the blood-lead testing program with Butte-Silver Bow's Women, Infants, and Children Program by calling 406-497-5060.

### Stay Informed

- Read and follow the suggestions in the EPA Guide Fight Lead Poisoning with a Healthy Diet.
- Learn and educate others about lead, arsenic, and other contaminants in Butte.

## **Be Contaminant Smart: Home**

Safety starts at home and there are important and simple practices you can follow to keep your family healthy.

## Keep Things Clean

- Keep your home clean and dust-free. This will cut down on the amount of contamination present in the environment.
- Wash hands and toys frequently will help prevent spreading germs and cut down on colds.



• Keep painted surfaces in good condition and clean around painted areas where friction can generate dust like doors, windows, and drawers.

## **Understand and Identify Potential Sources**

- Identify and limit exposure to products that may contain lead. These may include toys, cosmetics, crafts, and other items.
- If buying a home built before 1978, find out if it contains lead-based paint. A seller must disclose any known lead-based hazards.

## Don't Create Unnecessary Exposures

• Practice safe do-it-yourself renovations. Read and follow guidance in the EPA pamphlet *Renovate Right*.

### Stay Informed

- Read and follow the suggestions in EPA's brochure *Protect Your Family from Lead in Your Home.*
- Contact Butte-Silver Bow's Residential Metals Abatement Program to have your home tested for lead and arsenic (406-497-5040).

Web link to Renovating Right: www.epa.gov/lead/lead-safe-certified-guide-renovate-right-2

Web link to Protect Your Family from Lead in Your Home: www.epa.gov/lead/protect-your-family-lead-your-home

## **Be Contaminant Smart: Outside**

Gardening is a fun and healthy hobby and there are contaminant smart tips to help keep gardening safe.

### **Don't Let Contamination Into Your Home**

- Leave dirty shoes at the door.
- Reduce dirt brought in by pets.
- Wash children's hands, bottles, pacifiers and toys often especially if they contact soil.
- Avoid contact between gardening clothes and furniture.
- Wash garden produce thoroughly to remove soil completely.

## Garden Carefully

- Wear gloves while gardening and when harvesting produce.
- Add organic materials, like compost, manure, leaves, or grass clippings to your garden. Organic compounds bind lead and make it less available to contaminate plants.
- Add mulch to the garden to reduce dust and to prevent soil from splashing onto plants during irrigation or rainstorms.
- Locate your garden as far as possible from busy streets, highways, or old buildings. Traffic can spread dust contaminated with lead and old buildings may shed lead paint.
- Encourage kids to play away from the garden.
- Select plants with shallow roots to ensure that roots do not reach contaminated soil. Increase planting of fruits and vegetables that grow on vines and of fruit trees.
- Grow crops in containers filled with clean soil or build raised beds using safe materials.



## **Be Contaminant Smart: Taboos**

Finally, there are some things to avoid to be contaminant smart and keep your family safe.

• DO NOT knowingly consume lead, arsenic or other potentially harmful contamination.

**STOP!** 

- DO NOT let children chew or put paint chips in their mouths.
- DO NOT let children eat dirt.
- DO NOT try to remove lead based paint yourself. Call the RMAP or use an EPA certified or approved contractor. Read and follow the guidance of EPA's Renovation, Repair and Painting Program.
  - DO NOT allow children to play in known tailings or contaminated soil.
    - DO NOT have hobbies that use lead.

Remember, the Butte-Silver Bow RMAP is your best resource for help with lead paint identification and removal and for dealing with attic dust. Their assistance is provided at no cost to you.

## **Contacts for More Information**

#### Citizens for Labor and Environmental Justice

- www.facebook.com/Citizens-for-Labor-and-Environmental-Justice-860260360719942/
- 406-496-4228

#### Citizens Technical Environmental Committee

- www.buttectec.org
- 406-723-6247

#### City and County of Butte-Silver Bow

- www.co.silverbow.mt.us
- Health Department, 406-497-5020
- Women, Infants and Children Program, 406-497-5060
- Residential Metals Abatement Program, 406-497-5040

#### Montana Department of Environmental Quality

- www.deq.mt.gov/Land/fedsuperfund
- 406-444-6444
- U.S. Environmental Protection Agency
  - www.epa.gov/mt
  - 406-457-5000