



THE EHRENFELD AML PILOT RECLAMATION/ RECREATION & WATERSHED IMPROVEMENT PROJECT

Tom Wolf, Governor

Patrick McDonnell, Secretary

The Ehrenfeld AML Reclamation Project

- ◆ Pennsylvania Abandoned Mine Land (AML) and Acid Mine Drainage (AMD) Promotional Video featuring Ehrenfeld:
 - ["Downstream" Explores Threats to Pennsylvania Watersheds – YouTube](#)
 - 8:26 to 11:56

The Ehrenfeld AML Pilot Reclamation/ Recreation & Watershed Improvement Project



Pre-Construction Photo (1956)



2020 OSMRE Award Nomination



Post-Construction Photo (2020)



The Ehrenfeld AML Reclamation Project

◆ PA-DEP-BAMR webpage:

- [PA's Award Winning Reclamation Projects](#)
- [The Ehrenfeld AML Pilot Reclamation/Recreation & Watershed Improvement Project, 2020 OSMRE/NAAMLPA Pennsylvania Nomination \(state.pa.us\)](#)

The screenshot shows a web browser window with the URL <https://www.dep.pa.gov/Business/Land/Mining/AbandonedMineReclamation/ProgramAccomplishments/Pages/PA'sAwardWinningR...>. The page is titled "Reclamation Projects" and features a navigation bar with links: "About DEP", "Residents", "Businesses", "Public Participation", and "Data and Tools". The main content area is titled "Reclamation Projects" and lists several projects. The first project is "The Stineman Refuse Pile – Path of the Flood Trail Abandoned Mine Land Economic Revitalization Reclamation Project, Cambria County, Wins the 2021 Appalachian Regional Award". Below this, there is a list of links: "Nomination (PDF)", "Nomination Media Links (PDF)", "OSMRE's Abandoned Mine Land Reclamation Awards Standards", "OSM Press Release (PDF)", "Entire OSM Award Video (Pennsylvania Recognized at Timestamp 13:28 on YouTube)", "PowerPoint Presentation", and "Project Team Photo (PDF)". The second project is "The Ehrenfeld AML Pilot Reclamation / Recreation & Watershed Improvement Project, Cambria County, Wins the 2020 OSMRE National AML Reclamation Award". Below this, there is a list of links: "Nomination (PDF)" and "OSMRE's Abandoned Mine Land Reclamation Awards Standards".

PA's Award Winning Reclamation x +

Department of Environmental Protection

About DEP Residents Businesses Public Participation Data and Tools

Reclamation Projects

The Stineman Refuse Pile – Path of the Flood Trail Abandoned Mine Land Economic Revitalization Reclamation Project, Cambria County, Wins the 2021 Appalachian Regional Award

- [Nomination \(PDF\)](#)
- [Nomination Media Links \(PDF\)](#)
- [OSMRE's Abandoned Mine Land Reclamation Awards Standards](#)
- [OSM Press Release \(PDF\)](#)
- [Entire OSM Award Video \(Pennsylvania Recognized at Timestamp 13:28 on YouTube\)](#)
- [PowerPoint Presentation](#)
- [Project Team Photo \(PDF\)](#)

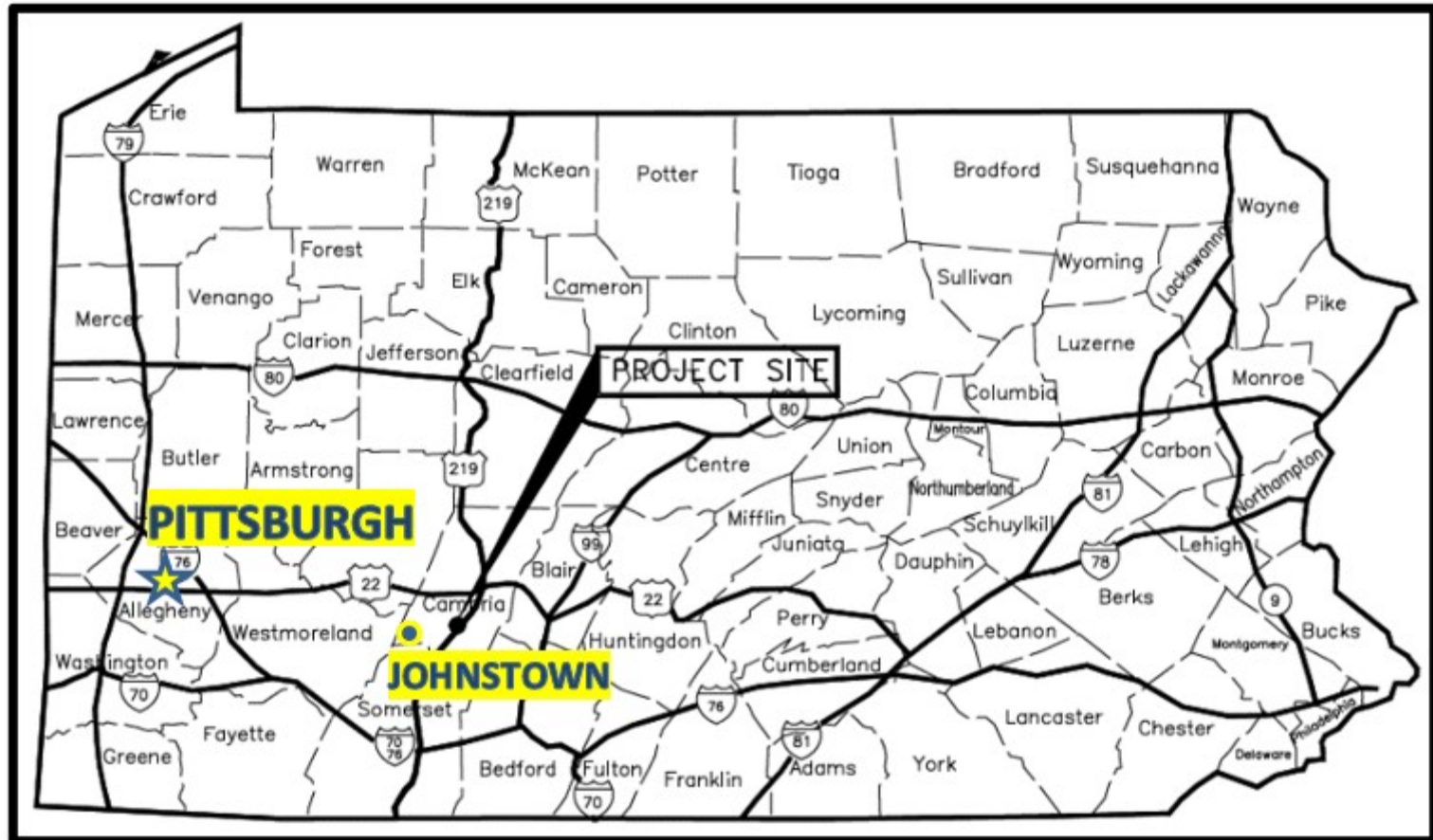
The Ehrenfeld AML Pilot Reclamation / Recreation & Watershed Improvement Project, Cambria County, Wins the 2020 OSMRE National AML Reclamation Award

- [Nomination \(PDF\)](#)
- [OSMRE's Abandoned Mine Land Reclamation Awards Standards](#)

▶ The Ehrenfeld AML Reclamation Project

◆ Project Location

- Problem Areas (PA 3041 and PA 3261)
- Ehrenfeld Borough, Croyle and East Taylor Townships, Cambria County, Pennsylvania



> The Ehrenfeld AML Reclamation Project

◆ AML Problems (Title IV):

- 69.5 Acres of Total AML
- Priority 2 Dangerous Pile and Embankment (DPE)
 - ◆ Refuse Pile 1 – 55.8 acres
 - ◆ Refuse Pile 2 – 7.7 acres
 - ◆ “Johnstown Path of the Flood Trail” Refuse Pile – 6.0 acres
- Priority 2 Surface Burning Condition (SB)
- Priority 2 Clogged Stream Land (CSL)
- Priority 2 Dangerous Slide (DS)
- Priority 3 Gob Pile (GO)

◆ Active Surface Mine Permit (SMP) Area Title V):

- Total Area – 726.3 acres
- Authorized Mining Area – 246.6 acres
 - ◆ 125.8 acres of remining of eligible Title IV AML
 - ◆ 120.8 acres of new Title V active surface mining
 - ◆ Primary Refuse Disposal area of the Ehrenfeld AML Dangerous Refuse Pile Areas

The Ehrenfeld AML Reclamation Project

- ◆ Project Start and Completion Dates:
 - April 28, 2016 to August 25, 2020
- ◆ Construction Costs (As-Built):

Funding Source	Description	Cost	Funding Percent
U.S.A. General Fund	AML Pilot (FY 2016)	\$ 4,870,000.00	13.79%
OMSRE	AML (Title IV Funding)	\$ 12,141,822.39	34.38%
	\$5.14/CY Refuse Disposal Fee (Title IV Funding - License Agreement Fee Between Rosebud Mining Co. & PA-DEP BAMR)	\$ 17,726,302.58	50.20%
Pennsylvania	State Growing Greener Grant	\$ 500,000.00	1.42%
Partners	Foundation for Pennsylvania Watersheds	\$ 20,000.00	0.06%
	Community Foundation for the Alleghenies	\$ 25,000.00	0.07%
	The American Chestnut	\$ 25,000.00	0.07%
	Cambria County Conservation and Recreation Authority	\$ 5,000.00	0.01%
Total (as of 6/15/2020) = \$ 35,313,124.97			

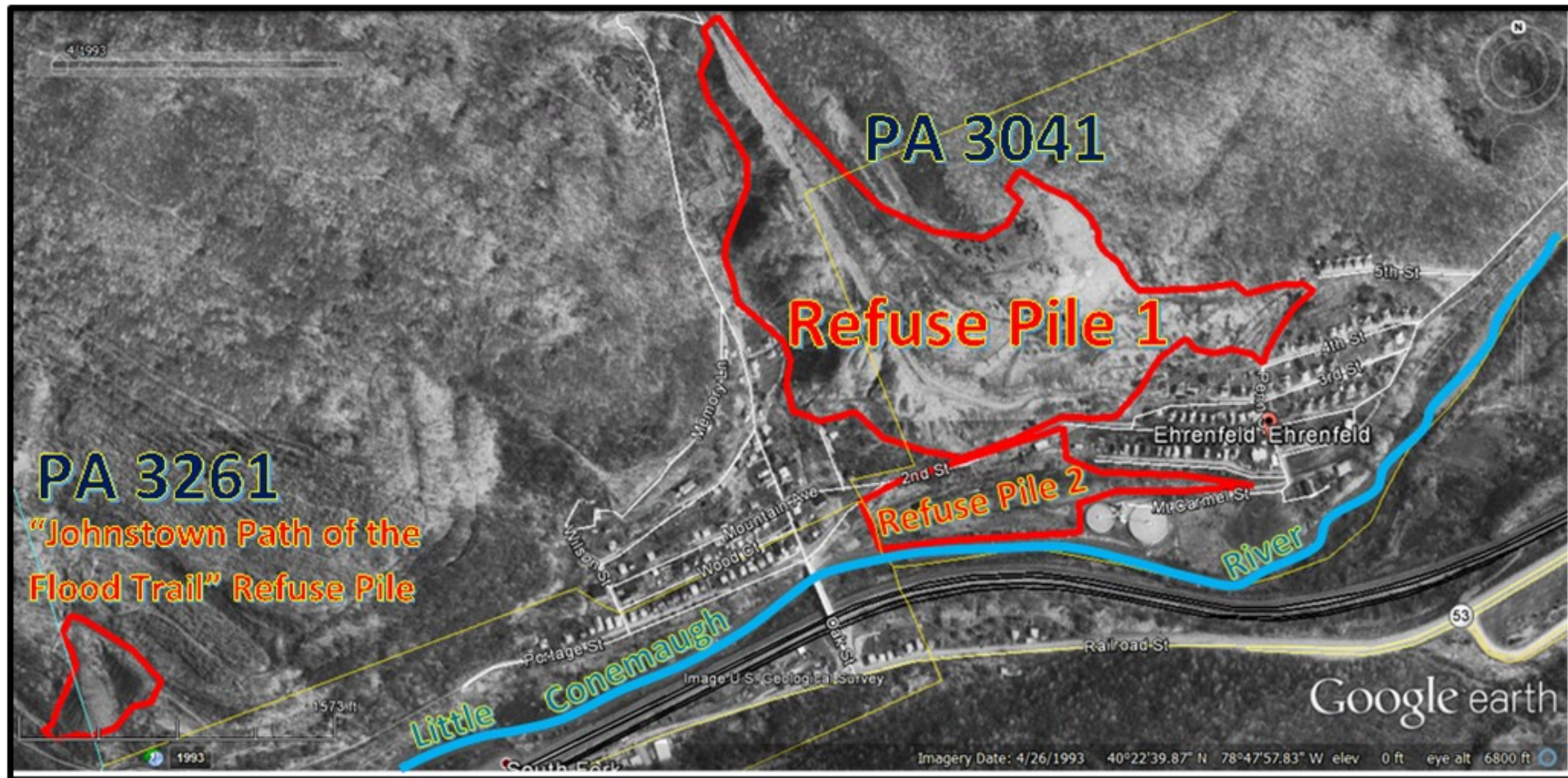
The Ehrenfeld AML Reclamation Project

◆ Primary Project Partners:

- Office of Surface Mining Reclamation and Enforcement
- PA DEP, Bureau of Abandoned Mine Reclamation
- PA DEP, Cambria District Mining Office
- Foundation for Pennsylvania Watersheds
- Community Foundation for the Alleghenies
- American Chestnut Foundation of Asheville, North Carolina
- Cambria County Conservation & Recreational Authority
- Arcelor Mittal Pristine Resources, LLC (Property Owner)
- Rosebud Mining Company (Contractor)

The Ehrenfeld AML Reclamation Project

◆ Before Construction Conditions of the AML Site





Ehrenfeld

1956

➤ The Ehrenfeld AML Reclamation Project



➤ The Ehrenfeld AML Reclamation Project



▶ The Ehrenfeld AML Reclamation Project



▶ The Ehrenfeld AML Reclamation Project



➤ The Ehrenfeld AML Reclamation Project











> The Ehrenfeld AML Reclamation Project

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◆ Reclamation Methods?

- Processed refuse as fuel at a Co-Generation Facility?
 - ◆ No, the Ehrenfeld refuse had low BTU and high sulfur content.
- Excavated and disposed in permitted land fill facility?
 - ◆ Yes, however - where would be the closets to incur lowest travel costs?
 - Permitted land fill?
 - Other eligible AML areas like dangerous highwall pits that require backfill?
- Regraded, and soil capped on-site?
 - ◆ No, the existing slopes of the pile where very steep and there was not enough safe area to regrade the pile on-site.

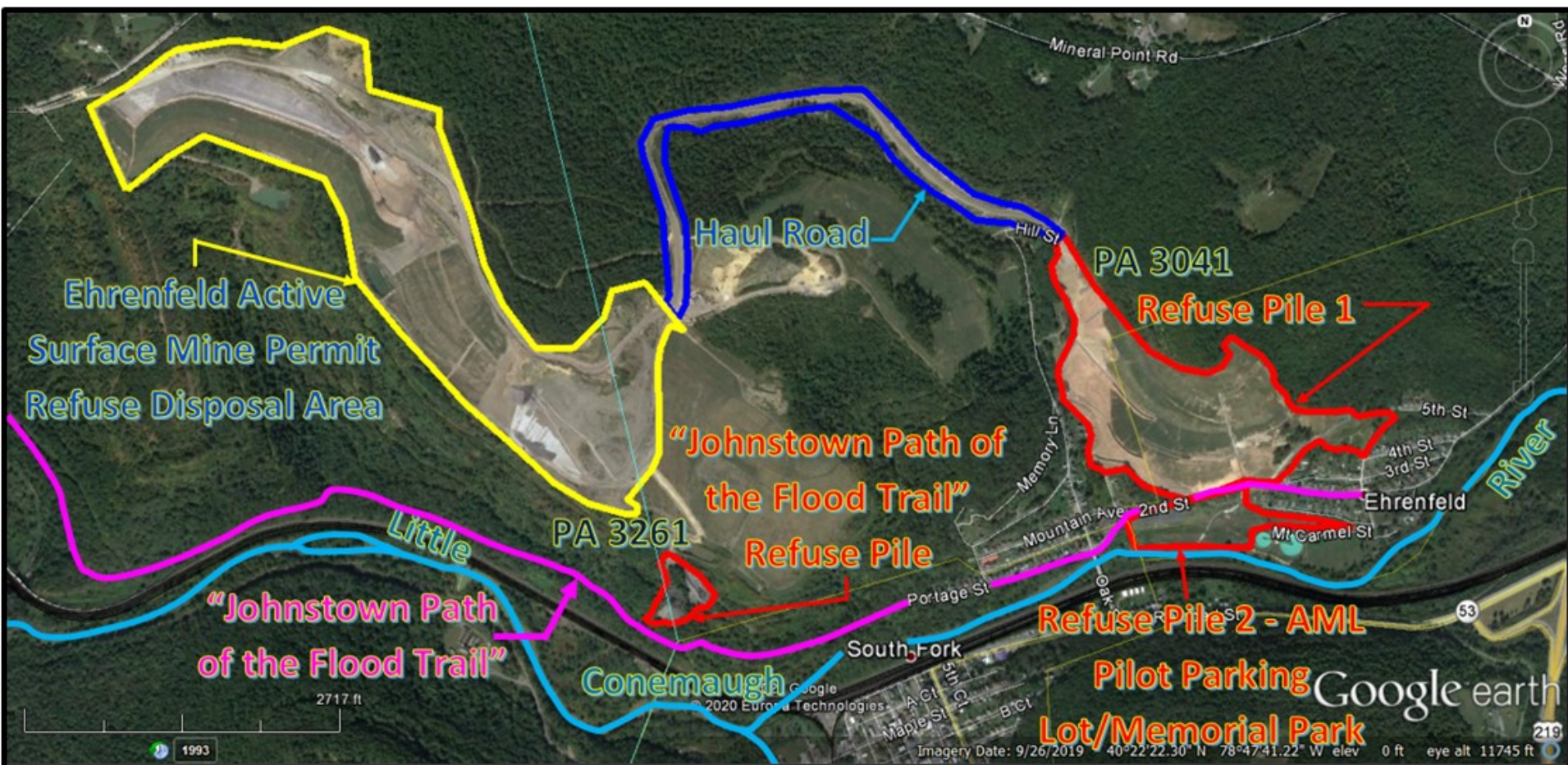


PAUSE FOR ANY QUESTIONS?

Patrick M. Webb, P.E. | Assistant Director
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286 Industrial Park Road | Ebensburg, PA 15931
Phone: 814.472.1830
pawebb@pa.gov

The Ehrenfeld AML Reclamation Project

◆ Before Construction Conditions of the SMP Site



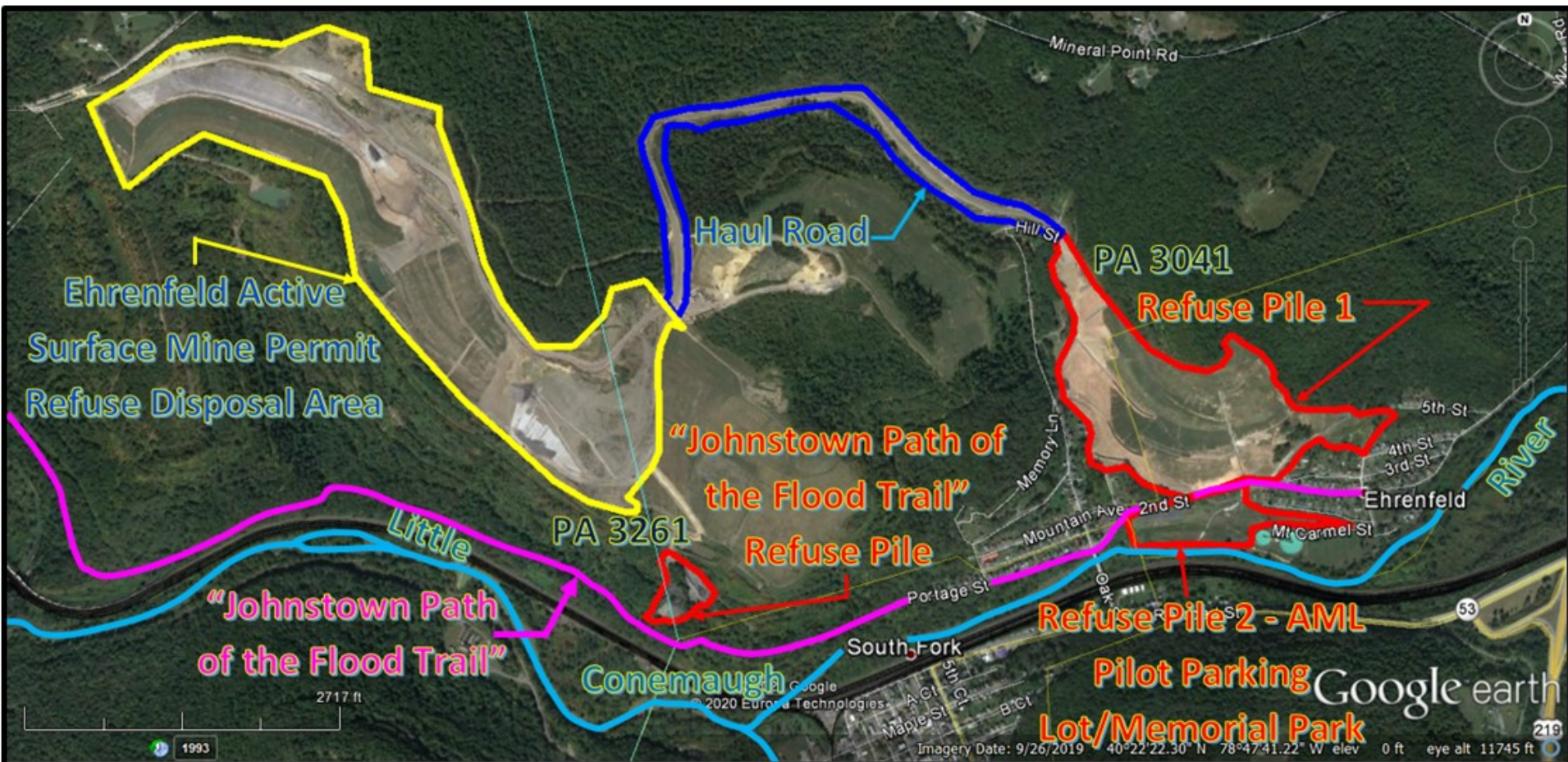
➤ The Ehrenfeld AML Reclamation Project

◆ Before Construction Conditions of the SMP Site



The Ehrenfeld AML Reclamation Project

- ◆ Before Construction Conditions of the SMP Site that would become the Refuse Disposal Site



The Ehrenfeld AML Reclamation Project

- ◆ 10/08/2008 – Surface Mine Permit Issued to Amfire Mining Company to mine 246.6 acres of a 726.3 acres permitted area.
- ◆ 08/20/2013 – Lowest responsible bid of \$98,925,244 received to reclaim the 69.5-acre AML site and dispose mine refuse at a permitted disposal facility. Contract was not awarded due to the excessive bid.
- ◆ 12/29/2014 – Surface Mine Permit transferred Rosebud Mining Company
- ◆ 8/14/2015 – Rosebud Mining Company amended the permit to accept mine refuse with alkaline addition at a \$5.14 per cubic yard disposal fee to produce a gradual final contour and reduce erosion.
- ◆ 11/19/2015 – Reclamation of AML site redesigned to be disposed of within the permitted surface mine was advertised and received 4 bids.
- ◆ 2/16/2016 – Rosebud Mining Company was the low bid and were awarded the reclamation contract at \$13,455,319 (As-Bid).
 - \$12,736,920 – Estimated Refuse Disposal Fee Total (As-Bid)
 - (+) \$13,455,319 – Rosebud Mining Company Qualified Low Bid
 - \$26,192,239 As-Bid Total (2/16/2016 vs. \$98,925,244 (8/20/2013 Bid))



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➤ The Ehrenfeld AML Reclamation Project

- ◆ August 16, 2016, Project Groundbreaking Ceremony
 - <https://www.youtube.com/watch?app=desktop&v=r3xyJwWCz2U>
 - Time: 1:17

➤ The Ehrenfeld AML Reclamation Project

◆ During Construction Conditions of the AML Site









➤ The Ehrenfeld AML Reclamation Project



▶ The Ehrenfeld AML Reclamation Project





02.14.2018 12:04





07.10.2019 14:33





09.12.2019 13:31



09.12.2019 10:30



03.18.2020 12:19



➤ The Ehrenfeld AML Reclamation Project

- ◆ During Construction Conditions of the SMP/Disposal Site



▶ The Ehrenfeld AML Reclamation Project





The Ehrenfeld AML Reclamation Project

- ◆ Pennsylvania Environmental Council (PEC) 2017 Western PA Awards
 - Award for the project during construction.
 - <https://www.youtube.com/watch?app=desktop&v=o4W8TJnr6SE>
 - Time: 5:29



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➤ The Ehrenfeld AML Reclamation Project

◆ Post Construction Conditions of the AML Site





06.04.2020 15:43



06.04.2020 10:30



06.04.2020 10:29



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06.04.2020 16:13



06.04.2020 16:12



06.04.2020 16:00



06.04.2020 16:00

➤ The Ehrenfeld AML Reclamation Project

◆ Post Construction Conditions of the SMP Disposal Site





06.04.2020 14:49



06.04.2020 14:52



06.04.2020 14:53



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➤ The Ehrenfeld AML Reclamation Project

◆ Watershed Conditions at the AML Site

Sample Point Description	Date	Flow	Lab pH	Alkalinity	Hot Acidity	Total Fe	Mn	Al	Sulfate	Suspend Solids
		gpm	SU	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Unnamed Tributary ABOVE Refuse Pile	05/31/16	120	5.7	8.2	2.60	<0.300	0.094	<0.500	<20.0	10.0
	12/20/17	110	7.4	43.2	-26.00	3.249	0.290	0.672	78.6	16.0
	04/11/19	130	6.2	7.8	4.20	<0.300	0.110	<0.500	25.2	<5
	12/19/19	100	5.8	7.4	10.80	<0.300	0.188	<0.500		14.0

EHRENFELD AML REFUSE PILE SITE

Sample Point Description	Date	Flow	pH	Alkalinity	Hot Acidity	Total Fe	Mn	Al	Sulfate	Suspend Solids
		gpm	SU	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Unnamed Tributary BELOW Refuse Pile	08/06/12	120	4.8	0.0	46.40	0.139	0.854	15.700	261.7	
	06/02/14	130	7.4	27.6	10.00	0.110	0.282	4.628	142.3	18.0
	4/28/2016 - AML Reclamation of Refuse Pile Contract Start									
	05/31/16	140	7.6	33.0	-15.00	0.783	0.234	4.334	116.6	26.0
	12/20/17	130	7.6	87.0	-67.40	3.785	0.347	0.824	110.1	26.0
	04/11/19	150	7.4	45.6	-33.80	<0.300	0.122	0.854	110.4	6.0
	12/19/19	120	7.5	40.4	-21.00	<0.300	0.059	<0.005		36.0

➤ The Ehrenfeld AML Reclamation Project

◆ Watershed Conditions at the SMP Disposal Site

Sample Point Description	Date	Flow	Lab pH	Alkalinity	Hot Acidity	Total Fe	Mn	Al	Sulfate	Specific Conductance	Suspend Solids
		gpm	SU	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(uS/cm)	(mg/l)
Monitoring Point of the Unnamed Tributary below EHRENFELD SMP area	12/31/08	90	4.9	6	20	0.08	0.31	4.54	114	307	13.0
	03/17/09	100	5.1	7	20	0.07	0.40	7.67	172	418	27.0
	06/16/09	90	6.3	12	10	0.16	0.35	7.08	16	479	23.0
	09/23/09	20	5.2	9	34	0.13	1.03	14.70	394	748	53.0
	11/13/09	95	6.3	19	-13	0.16	0.69	15.30	37	569	34.0
	03/31/10	100 +	5.6	7	18	0.12	0.26	4.83	103	294	14.0
	06/14/10	75	5.9	11	19	1.14	0.37	14.10	184	411	56.0

4/28/2016 - START OF EHRENFELD AML REFUSE AND AKALINE ADDITION PLACED AT THE EHRENFELD SMP SITE

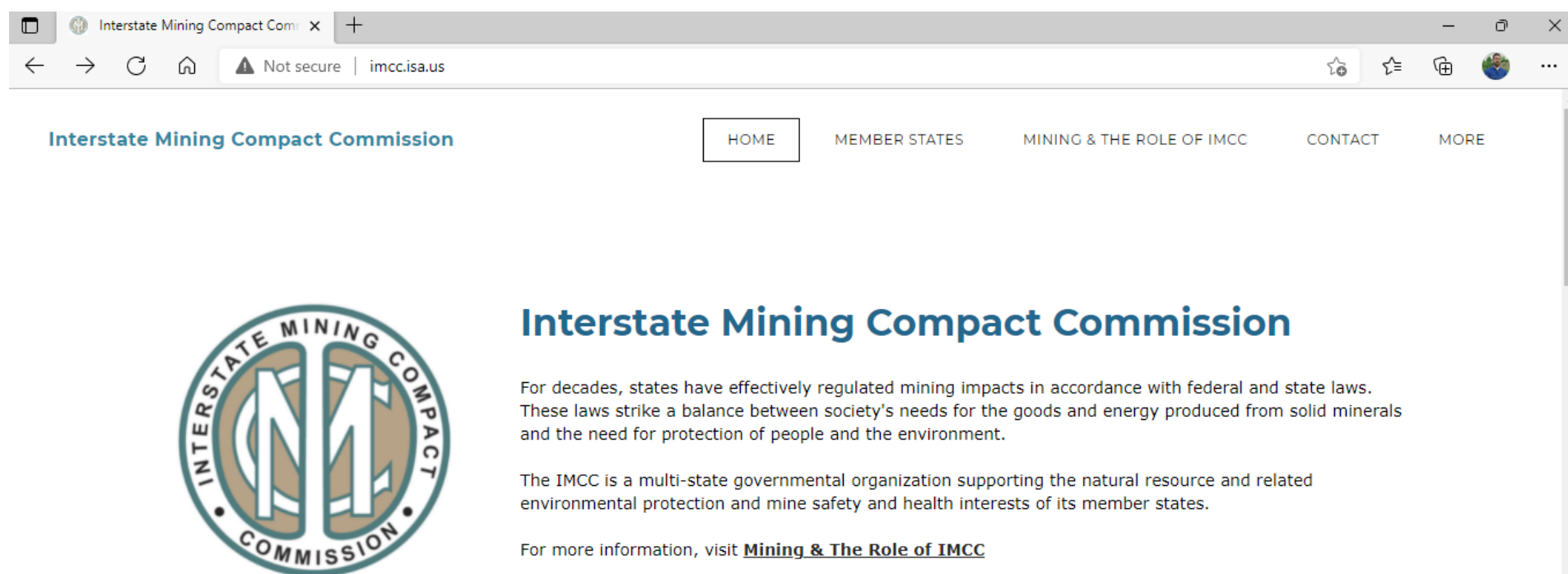
Sample Point Description	Date	Flow	pH	Alkalinity	Hot Acidity	Total Fe	Mn	Al	Sulfate	Specific Conductance	Suspend Solids
		gpm	SU	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(uS/cm)	(mg/l)
Monitoring Point of the Unnamed Tributary below EHRENFELD SMP area	03/26/18	500	7.0	20.6	-16.32	<0.1	0.18	2.50	104.0	362	16.0
	06/26/18	80	6.3	3.1	7.36	0.24	<0.05	0.37	19.7	113	8.0
	09/24/18	200	6.5	3.1	0.80	1.91	1.00	<0.10	17.2	125	9.0
	12/28/18	400	6.2	1.9	3.58	1.14	0.14	0.98	16.4	87	35.0
	03/27/19	100	6.2	1.9	1.99	0.16	0.05	0.14	17.9	120	36.0
	06/12/19	115	7.7	48.7	-40.60	0.85	0.11	0.82	71.3	313	30.0
	08/20/19	145	7.7	76.1	-66.27	2.07	0.15	1.49	144.9	447	61.0

> The Ehrenfeld AML Reclamation Project

- ◆ Post Construction Conditions of the AML and SMP Site
 - PA DEP Promotional Video:
 - <https://www.youtube.com/watch?v=umobvFoJNgE>
 - ◆ Time: 1:09
 - AML site Post Construction Video Drive By
 - https://www.youtube.com/watch?v=GKg_BPEHEkE
 - ◆ Time: 4:21

The Ehrenfeld AML Reclamation Project

- ◆ Prior to the project winning the 2020 OSMRE National AML Reclamation Award, the project was also awarded the Interstate Mining Compact Commission (IMCC) 2020 Coal Category Award
 - [Interstate Mining Compact Commission - Home \(imcc.isa.us\)](https://imcc.isa.us)



The Ehrenfeld AML Reclamation Project

◆ 2020 IMCC Annual Newsletter

IMCC ||| 2020 Annual Report

INTERSTATE MINING COMPACT COMMISSION



ANNUAL REPORT 2020



2020 Kenes C. Bowling Reclamation Award Winners

2020 Winners

The Compact's annual reclamation awards were established to recognize companies and individuals for their outstanding achievements in reclamation. The reclamation awards are presented in two main categories, coal and noncoal. Award winners are presented with an engraved plaque of recognition.

Coal Category Winner:

Rosebud Mining Company – Ehrenfeld Mine (Pennsylvania)

Noncoal Category Winner:

Lafarge – Algonquin Pit #5 (Illinois)



OSMRE 2020 ABANDONED MINE LAND RECLAMATION AWARDS

NATIONAL AWARD WINNER





THE EHRENFELD AML PILOT RECLAMATION/ RECREATION & WATERSHED IMPROVEMENT PROJECT

Tom Wolf, Governor

Patrick McDonnell, Secretary

The Ehrenfeld AML Reclamation Project

◆ Project Team:

- WRITTEN BY: Patrick M. Webb, P.E.
- SUBMITTED FOR:
- Director-Eric E. Cavazza, P.E. (Retired), now Brian J. Bradley, P.G.
- Environmental Program Manager - Dean R. Baker, P.E. (Retired)
- Construction - Roger F. Rummel, P.E. and Ryan J. Farabaugh, P.E.
- Construction Inspection - Ronald R. Lindemuth and Ronald S. Fogel
- Design - Thomas C. Malesky, P.E. and Mark T. Sossong, E.I.T.
- Development/Permitting - Patrick M. Webb, P.E., Richard L. Beam, P.G., Kelsey Q. Jones, P.E., Maria T. Kasecky, P.E., and Michael A. Stayrook, P.E.
- Investigation - Martin E. Hughes, P.E. and Jeffery Kostelac, P.E.

Pennsylvania Department of Environmental Protection

Bureau of Abandoned Mine Reclamation, Cambria District Office

Ebensburg, PA, 15931

814-472-1800



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DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Abandoned Mine Reclamation

Abandoned Mine Land Reclamation Awards



OSMRE first recognized outstanding abandoned mine land reclamation and exemplary reclamation techniques in 1992, when it started the annual **Abandoned Mine Land (AML) Reclamation Awards Program**. The program mirrors one of the objectives of the Surface Mining Control and Reclamation Act of 1977 to ensure that land mined for coal would be restored to beneficial use as part of the mining process, and that lands abandoned without reclamation prior to the law would be reclaimed.



AWARD ELIGIBILITY

AML projects funded wholly or in part and completed by approved state or tribal programs are eligible for an award, including coal, non-coal, high-priority, and emergency projects. Abandoned mine reclamation completed by citizen groups or other non-state/nontribal organizations are not eligible for these awards. One project may be submitted by each state or tribal program each year.



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Bureau of Abandoned Mine Reclamation



AWARD WINNERS

OSMRE has traditionally given five awards:

- One national award
- One national award for small projects (restricted to projects receiving less than \$1 million in a state or tribe that receives less than \$6 million annually in AML funding)
- Three region-based awards

Any entry is eligible for the national award. Eligible voters and organizations eligible to submit nominations are listed below.

[View previous AML Reclamation Award Winners.](#)



An example of geomorphic design techniques being used.



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OSMRE Contacts and Office Locations

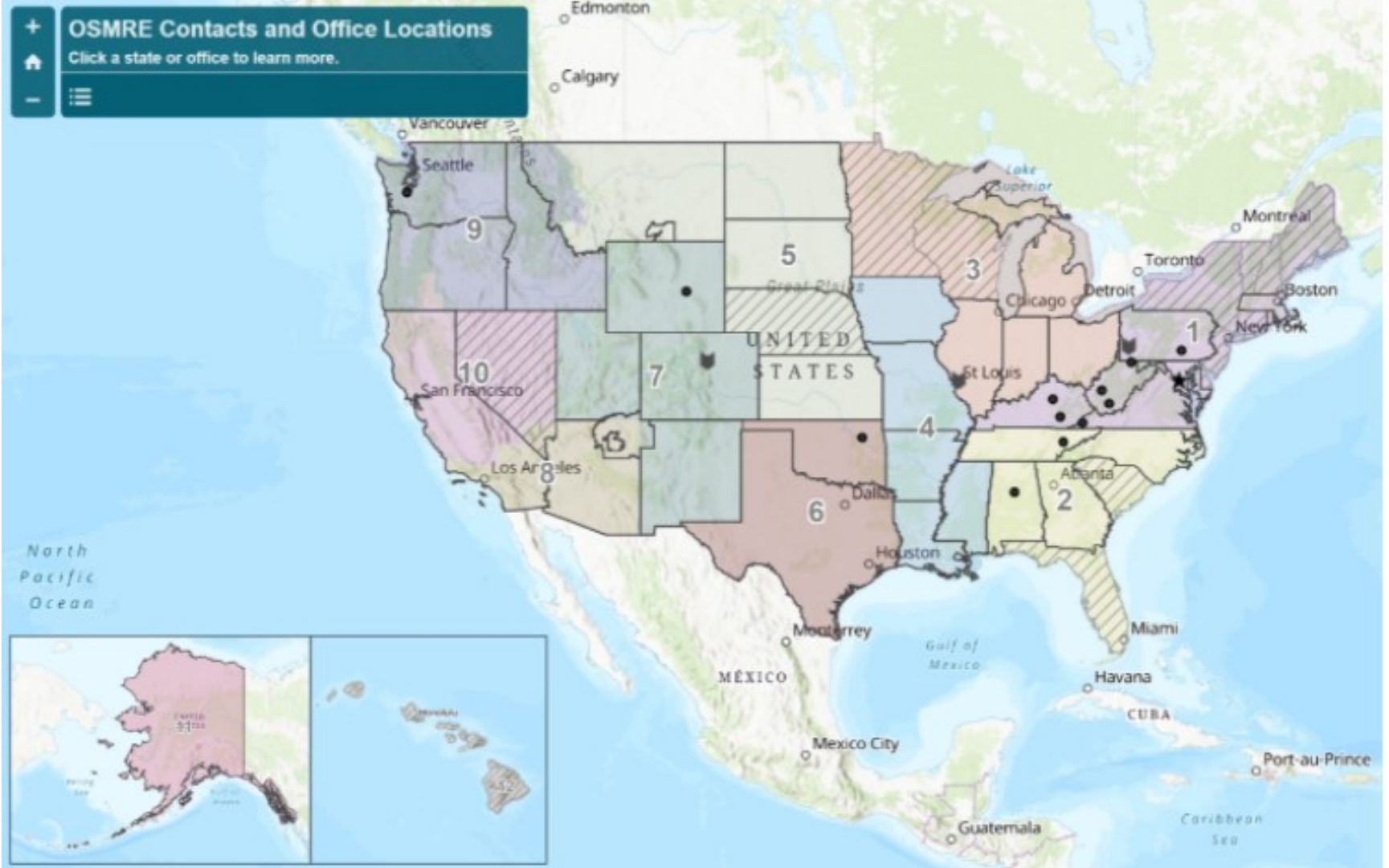
Click a state or office to learn more.

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Bureau of Abandoned Mine Reclamation

Organizations Eligible to Submit Nominations - 27 Total

Appalachian States Region - 7

1	Pennsylvania Bureau of Abandoned Mine Reclamation
2	West Virginia Office of Abandoned Mine Lands and Reclamation
3	Virginia Division of Mine Land Reclamation
4	Tennessee Abandoned Mine Land Program
5	Ohio Division of Mines and Reclamation
6	Maryland Abandoned Mine Lands Section
7	Kentucky Division of Abandoned Mine Lands

Interior States Region - 10

8	Alabama Mining and Reclamation
9	Arkansas Dept. of Pollution Control and Ecology
10	Illinois Abandoned Mine Land Reclamation Division
11	Texas Surface Mining and Reclamation Division
12	Oklahoma AML Program
13	Louisiana Injection and Mining Division
14	Kansas Surface Mining Section
15	Missouri AML Section Land Reclamation Program
16	Indiana Division of Reclamation
17	Iowa AML Program

Western States and Tribes Region - 10

18	Wyoming AML Program
19	Utah Abandoned Mine Reclamation Program
20	North Dakota AML Division
21	New Mexico Mining and Minerals Division
22	Montana Abandoned Mine Reclamation Bureau
23	Colorado Office of Active and Inactive Mines
24	Alaska Division of Mining
25	Navajo Nation Abandoned Mine Land Reclamation Department
26	Hopi Tribe Abandoned Mine Land Program
27	Crow Tribe AML Program



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Bureau of Abandoned Mine Reclamation



JUDGING STANDARDS

1. Innovative use of current technology (12 pts.)
2. Difficulty of Achieving Reclamation under Existing Conditions (17 pts.)
 - a. Special and unique considerations (8)
 - b. On-site difficulty of the project (9)
 - c. Project start and completion dates and construction costs
 - d. Names of organizations responsible for the reclamation, including contractors
 - e. Date submitted
3. On-Site Effectiveness (23 pts.)
 - a. Effective/innovative use of technology (8)
 - b. Landscape conforms to the natural environment (8)
 - c. Elimination of significant health or safety problems (7)
4. Funding (12 pts.)
 - a. Effective use of funds (6)
 - b. Leveraging – use of partners for funding or technology (6)
5. Benefits to the Community (18 pts.)
 - a. Community support for the project (6)
 - b. Long-term benefits to the community (12)
6. Surface Mining Control and Reclamation Act (18 pts.)
 - a. Exceeds the spirit and intent of SMCRA (10)
 - b. Increased public awareness of SMCRA (4)
 - c. Transferability to other AML projects (4)

The Ehrenfeld AML Reclamation Project

- ◆ Examples of Judging Standards:
- ◆ Innovative Use of Current Technology
 - NPDES permit was limited to only have areas disturbed in 6-acre increments
- ◆ Difficulty of Achieving Reclamation under Existing Conditions
 - Phasing of work was all located above homes, therefore stormwater had to be constantly redirected away via:
 - ◆ Series of Berms, Diversion Channels, Pipes that relocated in multiple phases
- ◆ On-Site Effectiveness
 - 69.5 acres of SMP now reclaimed with grasses and up to 2,900 trees.
- ◆ Funding
 - 64% cost savings with the as built final cost of \$35.3 Million versus the \$98 Million construction bid in 2013
- ◆ Benefits to the Community
 - Refuse Pile 2 area is now a memorial park and trail head
 - 40 Laid off miners of Rosebud Mining Company where rehired for the AML project.
- ◆ Surface Mining Control and Reclamation Act
 - Simultaneous reclamation of:
 - ◆ 69.5 Acres of Title IV AML site
 - ◆ 246.6 Acres of Title V SMP site (Disposal Area)



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DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Abandoned Mine Reclamation

Eligible Voters - 43 Total

OSMRE - 16

1	Chief, OSMRE Alton Field Division		
2	Chief, OSMRE Denver Field Division		
3	Chief, OSMRE Federal Reclamation Program Division		
4	Chief, OSMRE Pittsburgh Field Division		
5	Regional Director, OSMRE Appalachian Region		
6	Regional Director, OSMRE Mid-Continent Region		
7	Regional Director, OSMRE Western Region		
8	Field Office Director, OSMRE Tulsa Field Office		
9	Field Office Director, OSMRE Wyoming Field Office		
10	Field Office Director, OSMRE Birmingham Field Office		
11	Field Office Director, OSMRE Casper Field Office		
12	Field Office Director, OSMRE Charleston Field Office		
13	Field Office Director, OSMRE Knoxville Field Office		
14	Manager, OSMRE Olympia Office		
15	Environmental Specialist, OSMRE Pittsburgh Field Division		
16	AML Program Specialist, OSMRE Lexington Field Office		

Appalachian States Region - 7

17	Director, Pennsylvania Bureau of Abandoned Mine Rec.		
18	Chief, West Virginia Office of Abandoned Mine Lands and Rec.		
19	AML Manager, Virginia Division of Mined Land Reclamation		
20	Director, Tennessee AML Program		
21	Natural Resources Administrator, Ohio Div. of Mines and Rec.		
22	Supervisor, Maryland Abandoned Mine Lands Section		
23	Director, Kentucky Division of Abandoned Mine Lands		

Interior States Region - 10

24	Director, Alabama Mining and Reclamation Division		
25	Chief, Surface Mining and Reclamation Division, Arkansas		
26	Manager, Illinois Abandoned Mine Land Reclamation Division		
27	Director, Texas Surface Mining and Reclamation Division		
28	Director, Oklahoma AML Program		
29	Director, Injection and Mining Division, DNR, Louisiana		
30	Mining Section Chief, Kansas Surface Mining Section		
31	Chief, Missouri AML Section Land Reclamation Program		
32	Assistant Director Restoration, Indiana Division of Rec.		
33	Environmental Specialist – Senior, Div. of Soil Conserv., Iowa		

Western States and Tribes Region - 10

34	Director, Wyoming AML Program		
35	Chief, Utah Abandoned Mine Reclamation Program		
36	Director, North Dakota AML Division		
37	AML Program Manager, New Mexico Mining and Minerals Div.		
38	Chief, Montana Abandoned Mine Reclamation Bureau		
39	Director, Colorado Office of Active and Inactive Mines		
40	AML Program Coordinator, Alaska Division of Mining		
41	Director, Navajo Nation Abandoned Mine Land Rec. Depart.		
42	Manager, Hopi Tribe Abandoned Mine Land Program		
43	Director, Crow Tribe AML Program		



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PROTECTION

> The Ehrenfeld AML Reclamation Project

- ◆ OSMRE 2020 Awards Presentation Video
 - <https://youtu.be/VAXM81E2dXo>
 - ◆ 0:00 to 01:24 – Introduction
 - ◆ 14:08 to 18:14 – National Award Winner - Ehrenfeld



The Ehrenfeld AML Pilot Reclamation/ Recreation & Watershed Improvement Project



Pre-Construction Photo (1956)



2020 OSMRE Award Nomination



Post-Construction Photo (2020)



➤ The Ehrenfeld AML Reclamation Project

- ◆ Watershed Promotional Video featuring the Super 7 AMD Discharges, featuring Ehrenfeld – A River Reborn
 - [A River Reborn – YouTube](#)
 - 1:25 to 3:20
 - 5:37 to 6:41
 - 12:36 to 16:03
 - 25:39 to 26:30 – Mayor Plumber Dedication

- ◆ What's next for the Little Conemaugh River Watershed,
 - The Little Conemaugh AMDTP in Portage, PA
 - [Little Conemaugh River could run clear again with proposed treatment site in Portage | WJAC \(wjactv.com\)](#)
 - 2:14



THANK YOU – ANY QUESTIONS?

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