

Former Kaiser Mead Smelter EPA Removal Action

Spokane River Regional Toxics Task Force
October 28, 2020



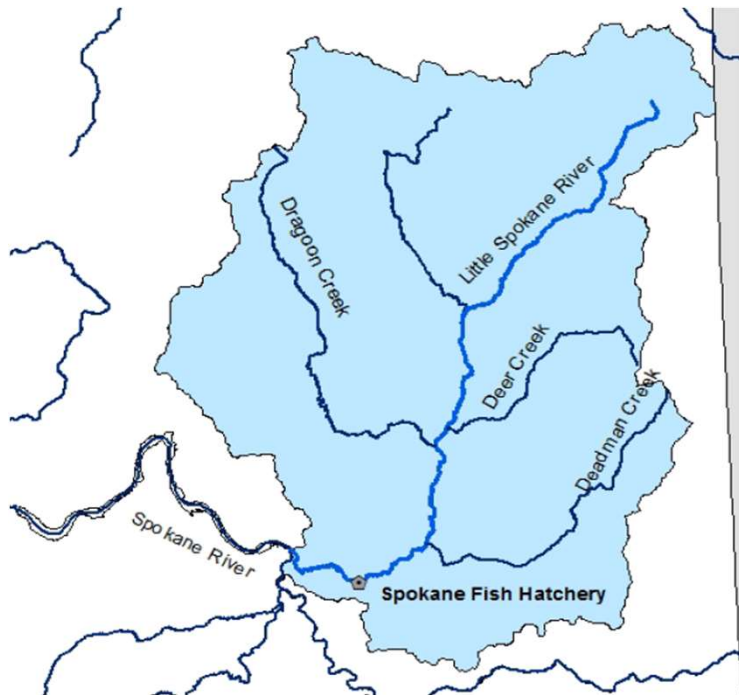


Former Kaiser Mead Smelter EPA Removal Action

Spokane River Regional Toxics Task Force
October 28, 2020



Site in relation to the Little Spokane Watershed



SOURCE: Spokane County

MOLLY QUINN mollyq@spokesman.com

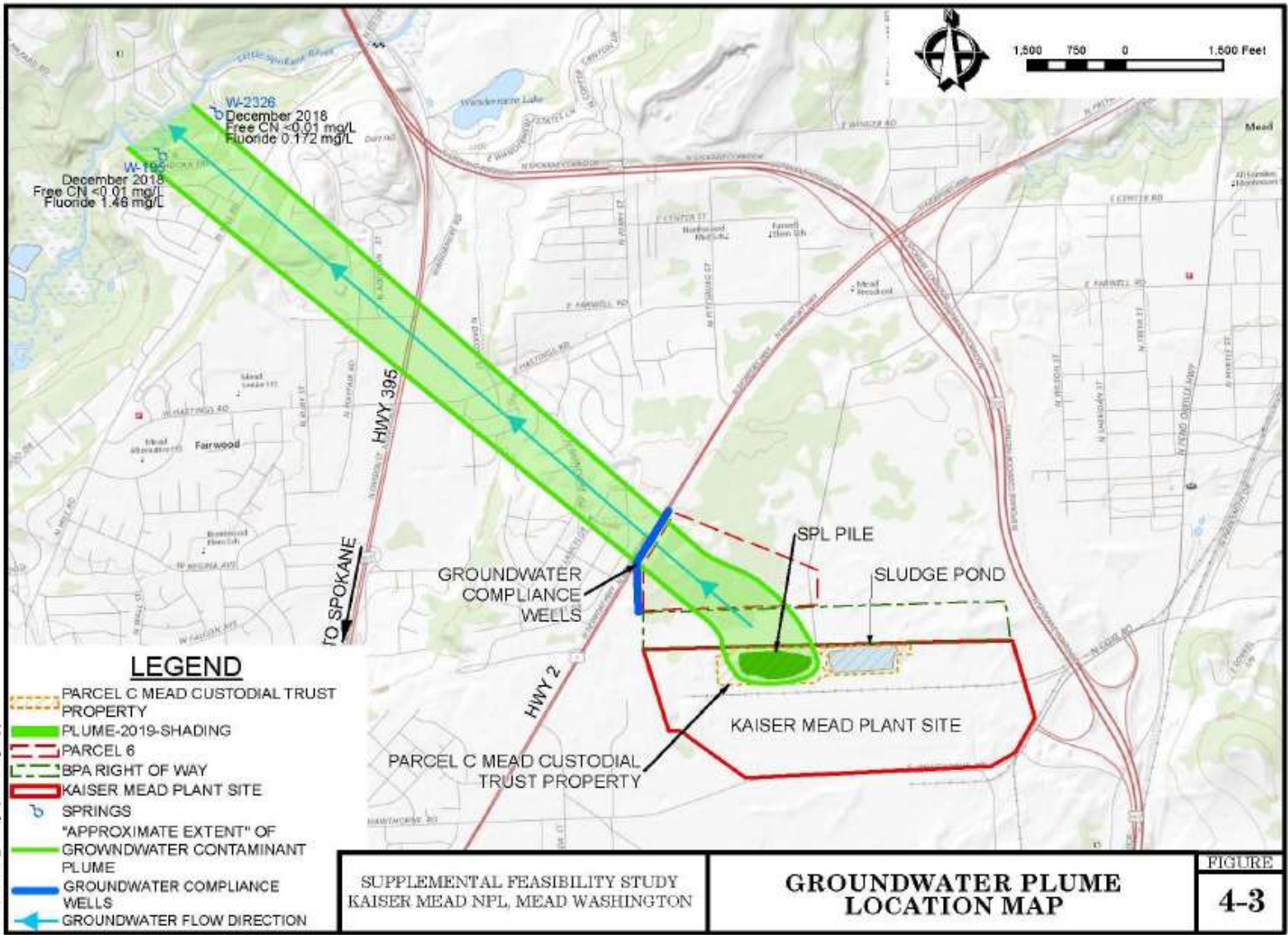




A brief history of the Kaiser Mead NPL site



Updated: 1/29/2019
 I:\Land Projects\908801\GIS\908801-H003.mxd



Hydrometrics, Inc.
 Consulting Scientists and Engineers





Renewed interest



Renewed interest





Recent Timeline

2018

Ecology

Site inspection identifies contaminants of concern:

- Asbestos
- PCBs
- PAHs
- Heavy metals

2019

Ecology

Requests assistance from EPA's Emergency Response Program.

2020

EPA

- Evaluated removal and remedial options
- Investigated and coordinated with PLPs
- Executed
- Initiated clean up activities

[Ecology 90 second video](#)



Site Layout & Ownership



Decision Unit 1

Two dozen buildings have a combined 322,000 SQFT of “Robertson Siding”

-Asbestos ~20%

-PCBs ~39,000 mg/kg.



Decision Unit 2

17,000 linear feet of "TSI" pipe insulation
comprised of ~20% asbestos.

- Inside and outside buildings
- Deteriorated, friable condition



Decision Unit 3

Uncontrolled waste piles of green coke, coal tar pitch, and other mixed waste.

-PCBs and PAHs detected ~ 17 times the applicable EPA Removal Management Levels (RMLs).



Settling Ponds

Several thousand cubic yards of sediment and hundreds of thousands of gallons of water accumulated in stormwater settling ponds on property owned Kaiser Aluminum.



Removal approach

Specialized demolition contractors remove siding panels off buildings.



Removal approach

Asbestos abatement specialists encapsulated and remove TSI piping.



Removal approach

Consolidate piles of waste material based on common hazardous characteristics and transfer into trucks that transport waste to appropriate landfills.

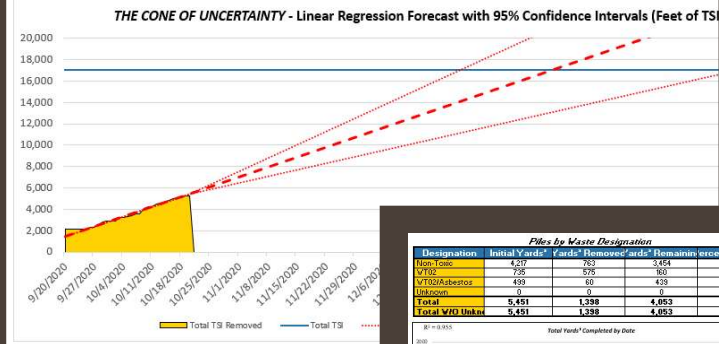


Progress Metrics

- Data Dashboard
- Production tracking and forecast
- Contaminant mass calculations

Projection Statistics				Totals Summary	
Metric	Linear Feet	Completion Prediction	95% Chance of Completion Between	Status	Linear Feet
Linear Regression Model		1/14/2021	12/25/2020 to 3/2/2021	Removed	5,200
Last 7 Day Average	114	1/31/2021		Remaining	11,700
Last 14 Day Average	140	1/11/2021		Total	17,000

Note: Projection does not include future holidays taken off. Add future days off work from normal schedule to projection date for a correction.



Piles by Waste Designation					Piles by Type		Piles by Location	
Designation	Initial Yards	Yards Removed	Remainin	Percent Comple	Type	Estimated Yards	Location	Estimated Yards
WT01 Toxic	457	253	204	60%	Green Cone	2,700	ES2 Green Cone	1,000
VT02	258	595	780	70%	Reclaimed Ore	2,700	ES1 Toxic	438
VT03/Asbestos	499	60	439	12%	Alumina	0	ES3 Ore Pile	870
Waste Area	0	0	0	0%			Reclaimed Ore	2,700
Total WTI Units	5,451	1,398	4,053	26%	Total	5,451	Total	5,451

Total Piles Projection Statistics			
Metric	Yards	Spent	Spent
Linear Regression Model	11,700	100%	100%
Last 7 Day Average	90.11	100%	100%
Last 14 Day Average	101.24	100%	100%

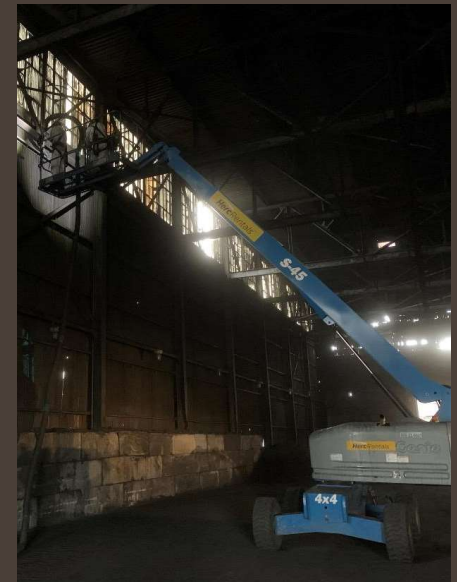
Non-Toxic Piles Projection Statistics			
Metric	Yards	Spent	Spent
Linear Regression Model	0.00	100%	100%
Last 7 Day Average	0.00	100%	100%
Last 14 Day Average	0.00	100%	100%

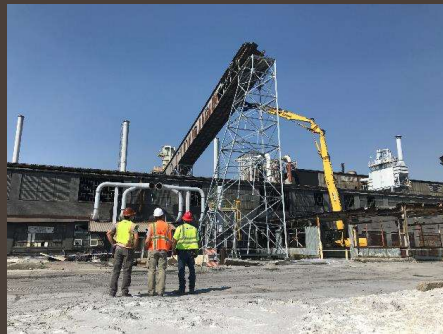
WT02 Piles Projection Statistics			
Metric	Yards	Spent	Spent
Linear Regression Model	45.11	100%	100%
Last 7 Day Average	41.01	100%	100%
Last 14 Day Average	41.01	100%	100%

WT03/Asbestos Piles Projection Statistics			
Metric	Yards	Spent	Spent
Linear Regression Model	2.97	100%	100%
Last 7 Day Average	2.93	100%	100%
Last 14 Day Average	2.93	100%	100%

Project Challenges

- Legal
- Financial
- **Site Safety**





Project Challenges

- Legal
- Financial
- Site Safety