

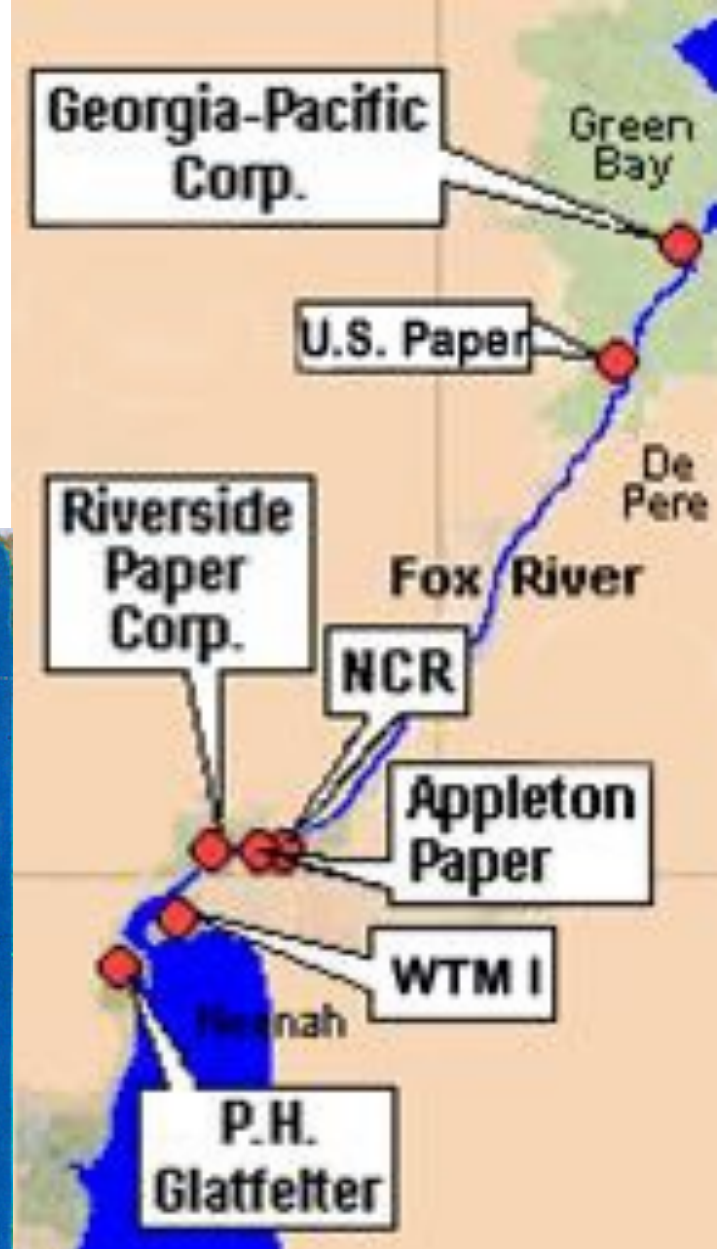
Fox River PCB Cleanup Completion



Fox River Cleanup Complete

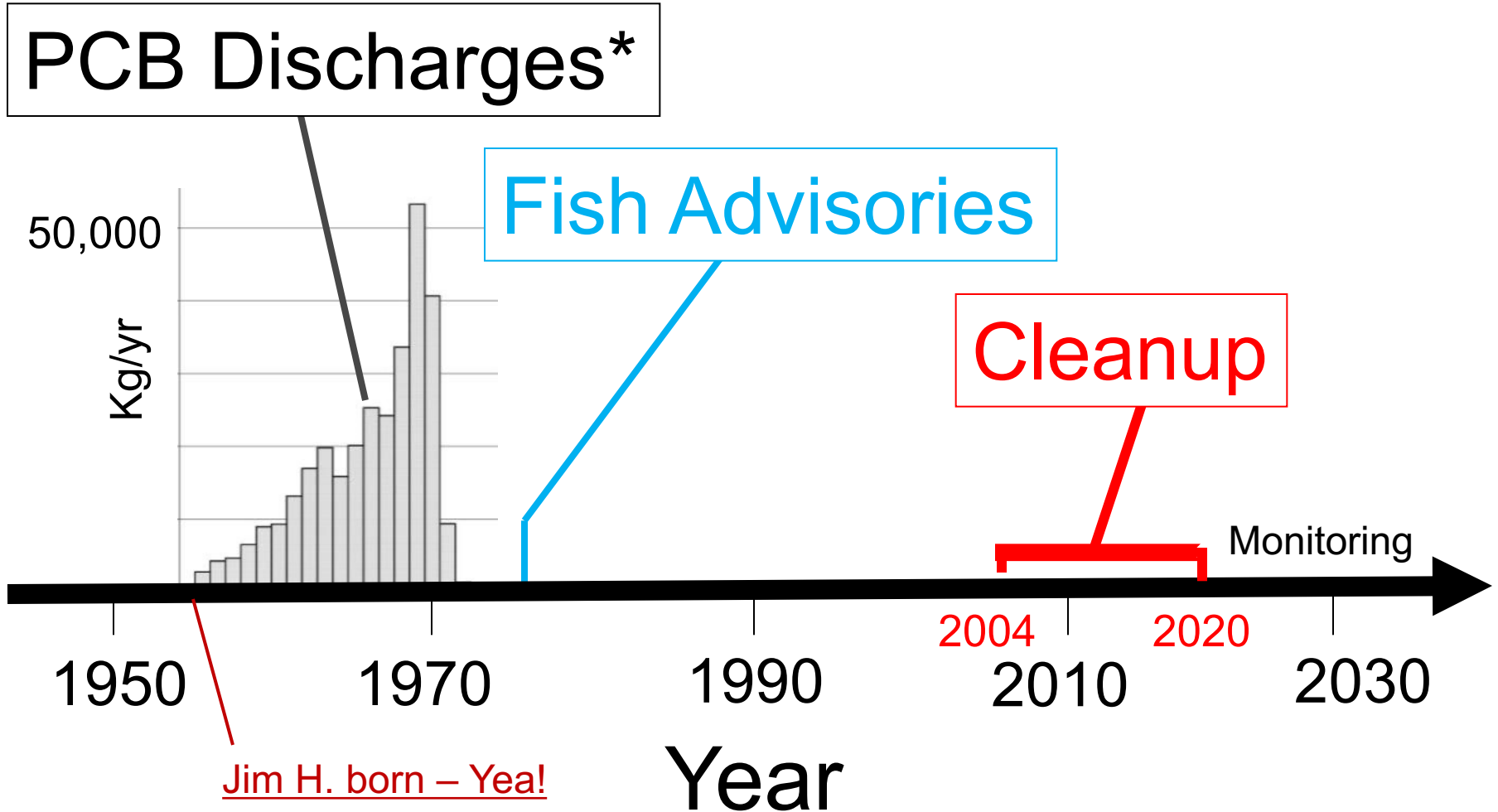
- **40 miles of river**
- **Dredging/Disposal - 6.5 million yards**
- **Capping - 1000 acres**
- **Cost: \$1 billion - paid by “Responsible Parties”**
- **Team effort: Companies, EPA, WDNR, Fish & Wildlife, Tribes**

Major PCB sources (1954 – 1971)



Modified from Green
Bay Press Gazette

Site History

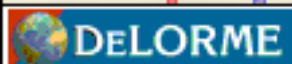


* From: WDNR, 1999, Technical Memorandum 2d.

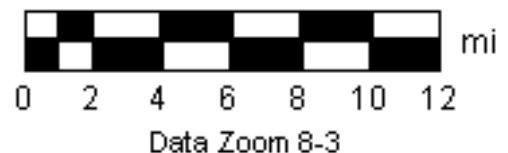
Fox River Cleanup

Downstream

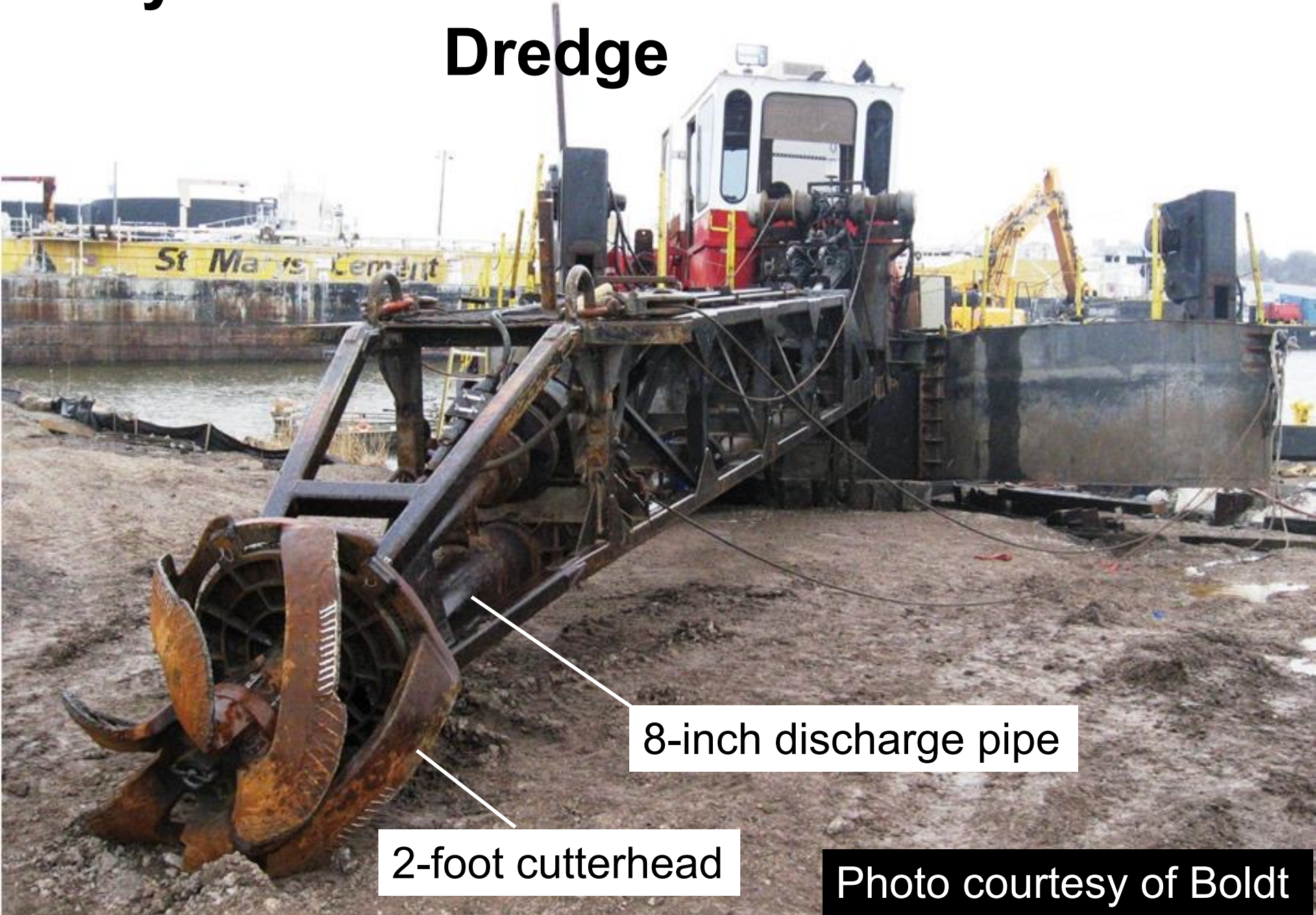
Upstream



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Hydraulic “8-inch” Cutterhead Dredge



8-inch discharge pipe

2-foot cutterhead

Photo courtesy of Boldt

Dredges

Discharge pipe size	Cutter head size	Optimum “cut” thickness	Daily production
8 inches	24 inches	1.5 feet	400 – 1000 cy
12 inches	36 inches	1.5 – 3.5 feet	3,100 – 3,400 cy

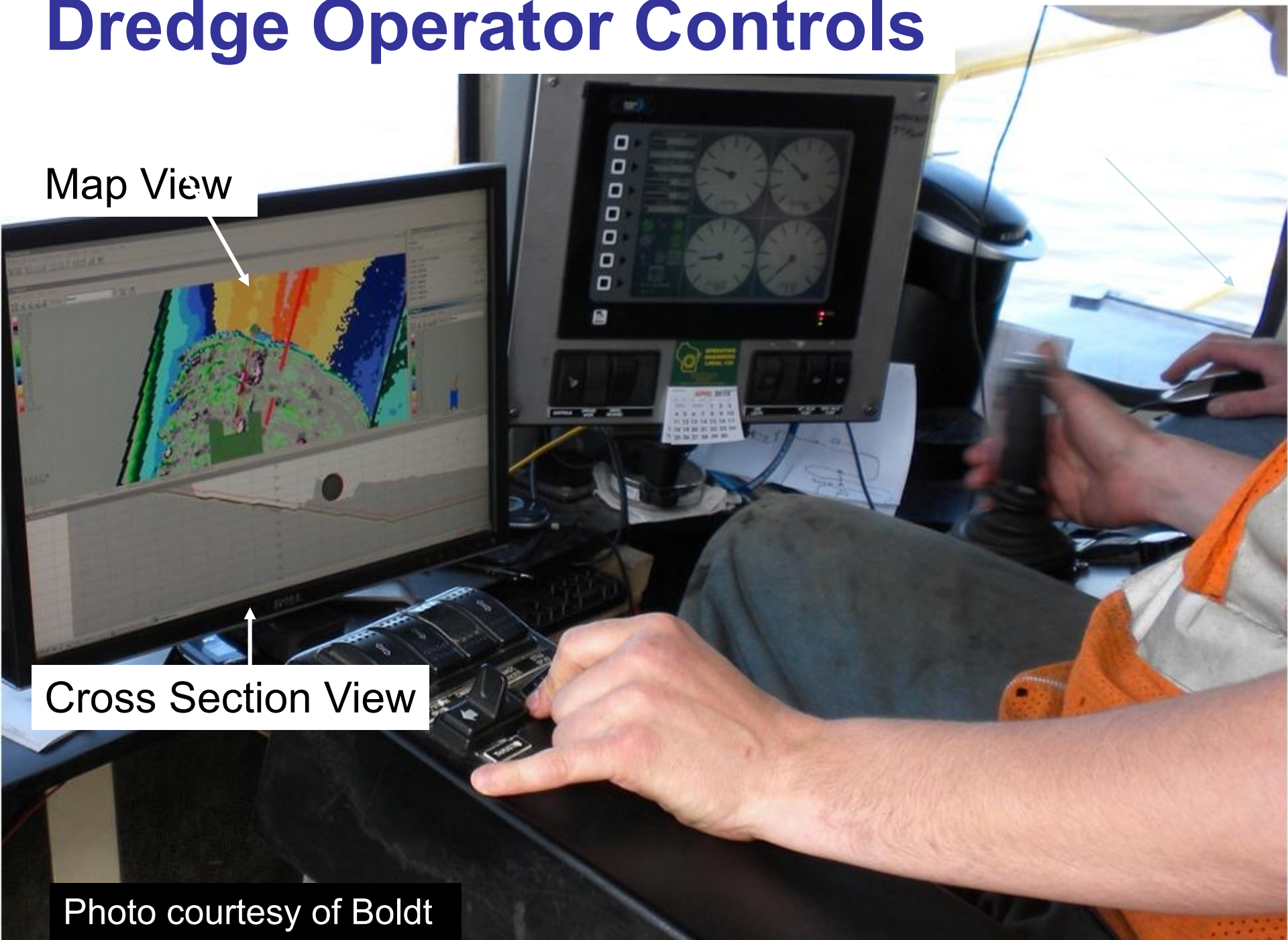
Downstream annual production: ~500,000 cubic yards
(Upstream: 100,000 – 250,000 cubic yards)

Dredge Operator Controls

Map View

Cross Section View

Photo courtesy of Boldt



Upstream Dewatering

Geotextile tubes



From: GW Partners, LLC, Remedial Action
Certification of Completion Report, Lower Fox
OU1, November 2010.



Field of Tubes

Restoration after cleanup

Photos courtesy of Boldt



Downriver Dewatering Plate and Frame Presses



Photo courtesy of Boldt

Disposal route

Disposal

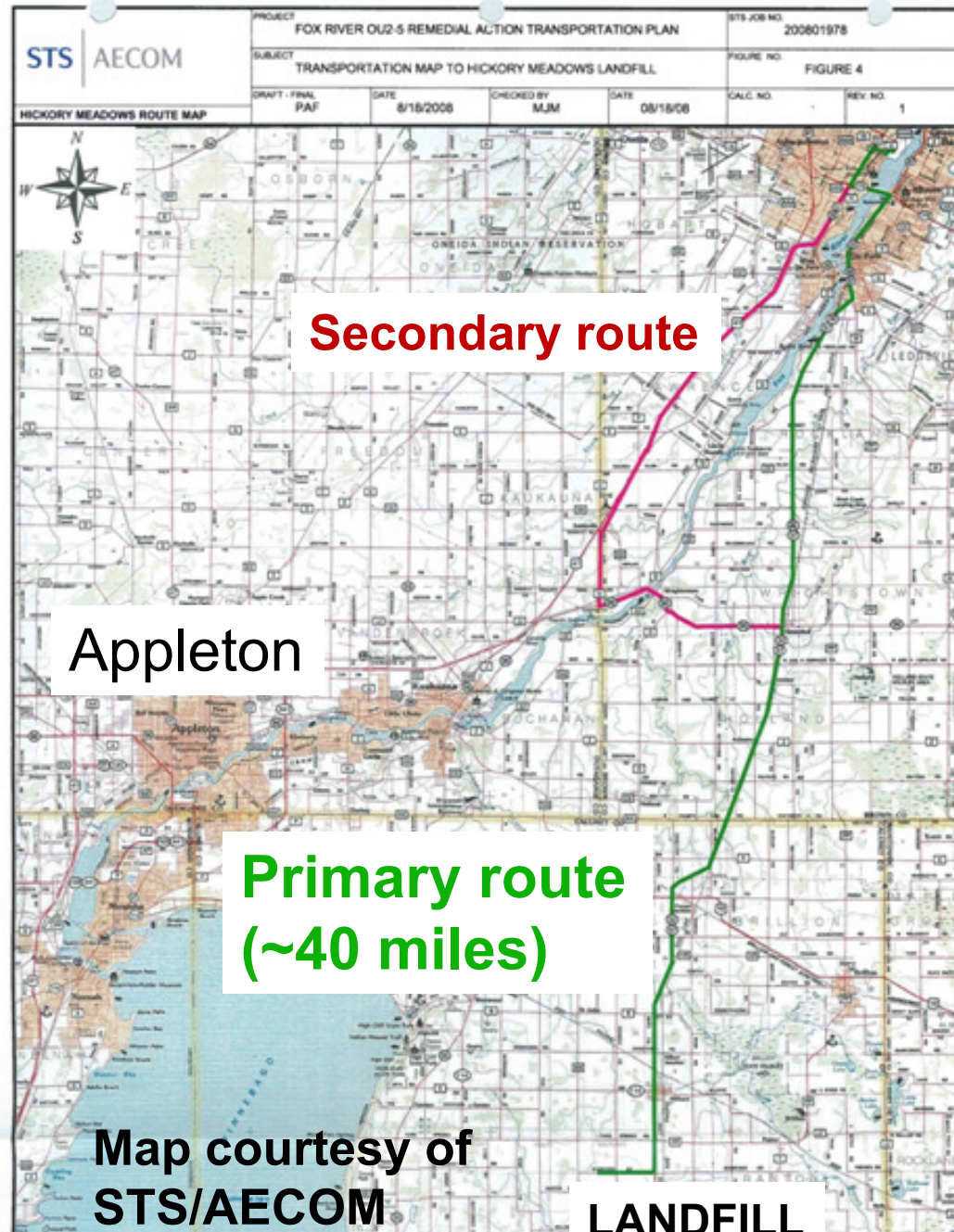


Photo courtesy of Boldt

Caps

1-RA-08-SP-A-4 N-6"-RS

Clean
Sand Cap

Contaminated
Sediment

Photo courtesy of Boldt oversight team

Cap Armor Stone



Results

- Approaching **unlimited fish consumption** in upstream areas
- **90% PCB concentration** reduction in sediment/surface water
- **170+ restoration projects**

Agency oversight team



Photo courtesy of Boldt

T h a n k y o u

Photo courtesy of Boldt oversight team