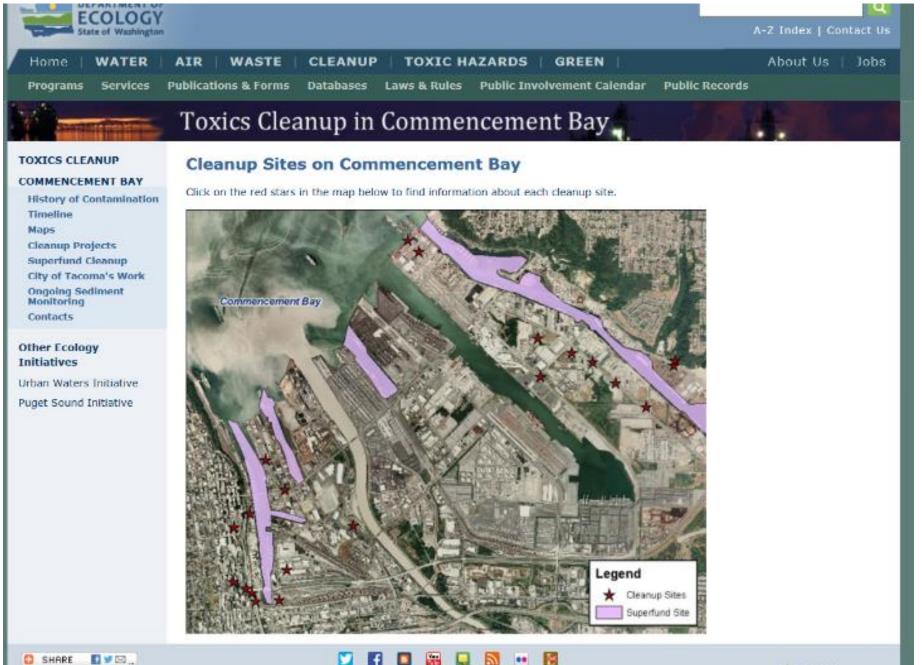
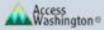
Occidental Chemical Tacoma Project



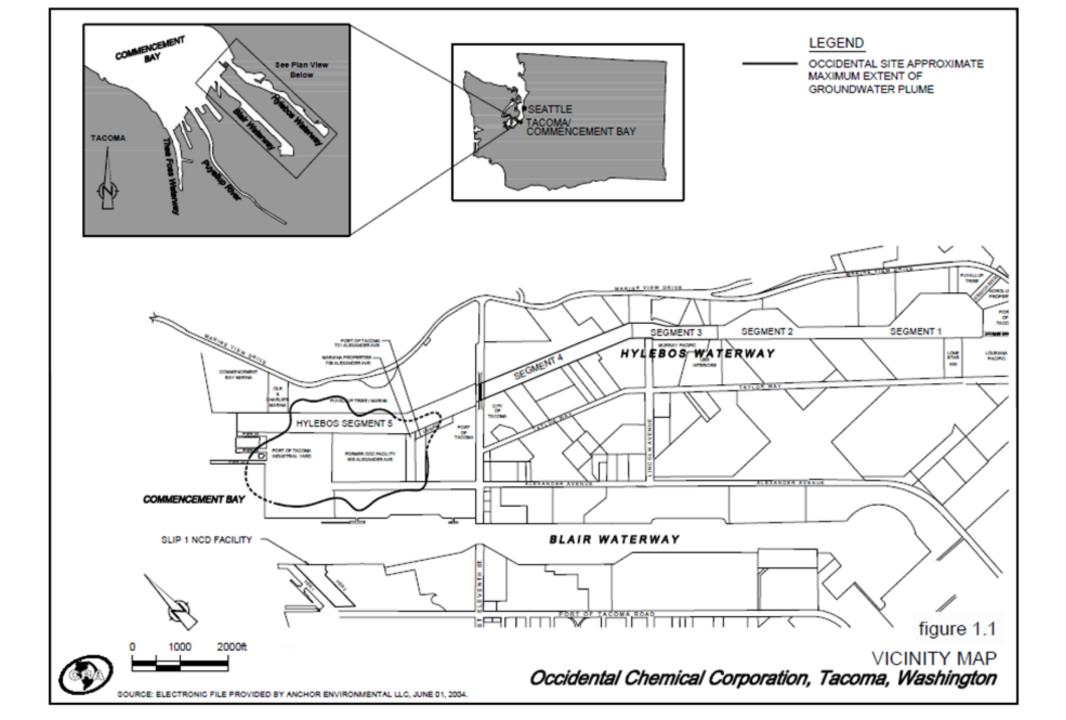




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Current Land Use

Zoned for maritime and heavy industrial use.

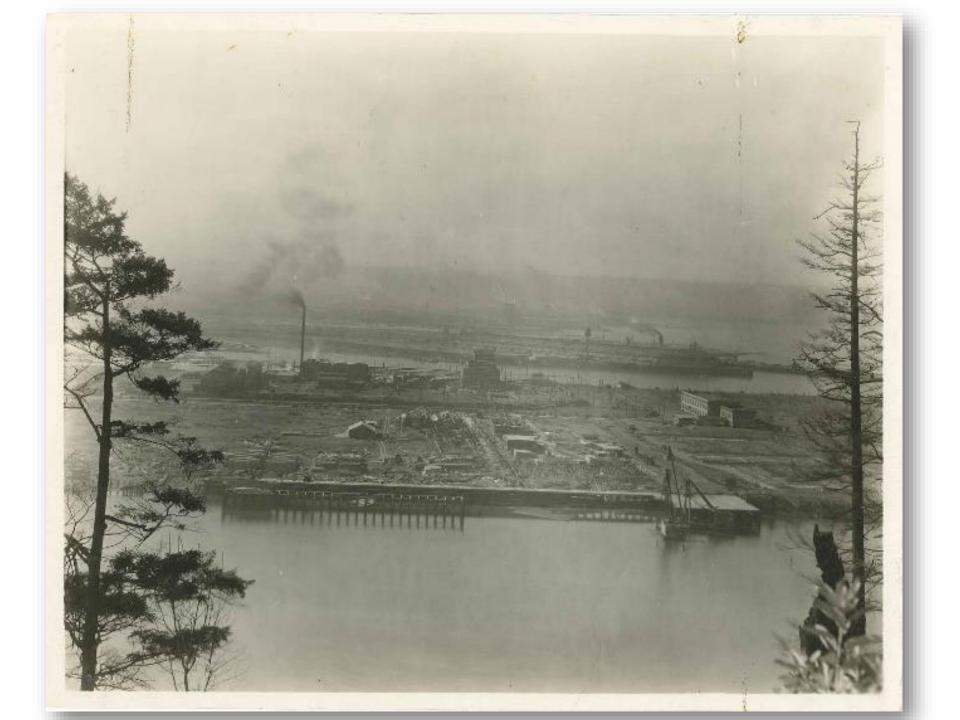
Restrictive covenants limit to industrial land use.

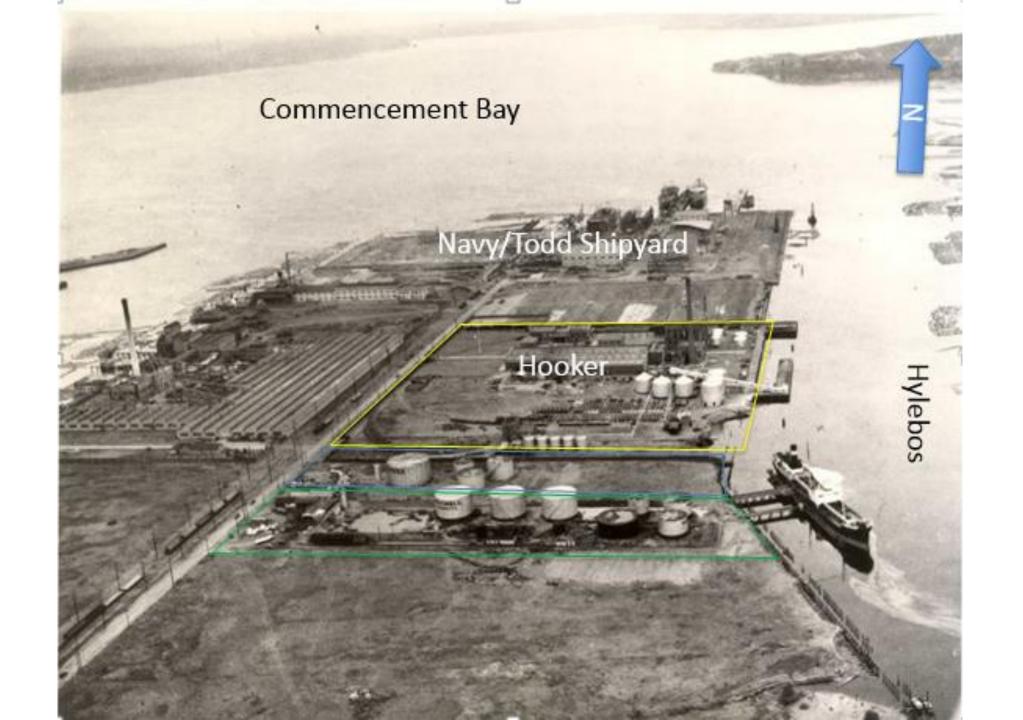
• Operating site closed.

• Decommissioned in 2007.

 Above-ground structures removed except for groundwater treatment plant.



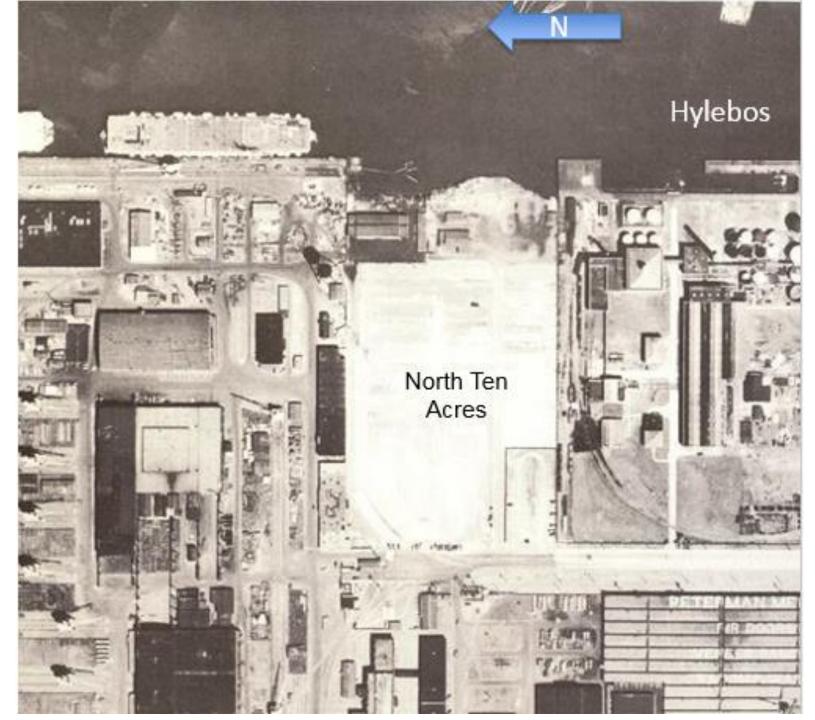


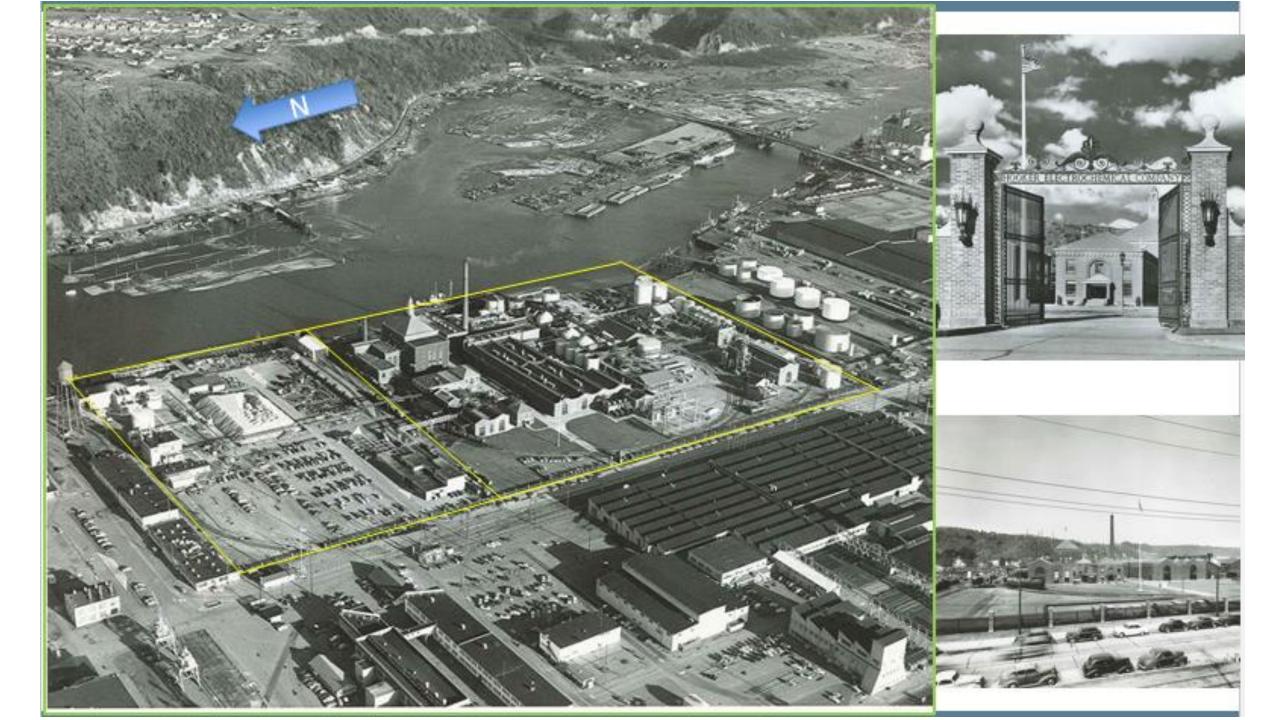












Historical Sources of Contamination

Chlorine and Caustic Soda (1929–2002)

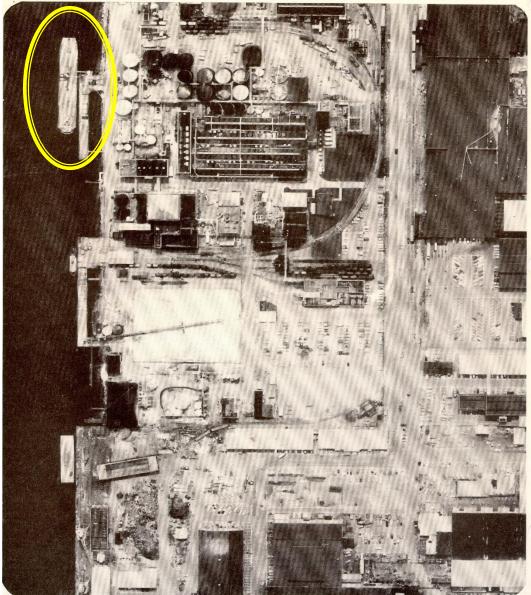
- Salt Pad (early 1960s-2002)
- Cell Houses
- Caustic Storage
- Elevated pH and elevated density



Historical Sources of Contamination

PCE / TCE Process (1947– 1973)

- Process Plant
- Lime Sludge Settling Ponds
- Lime Sludge Barge
- Effluent to Hylebos (Area 5106)
- Impacted groundwater, sediments and saturated and unsaturated soils
- Primary VOCs
- Groundwater plume extends under Hylebos Waterway





Historical operations as sources of contamination

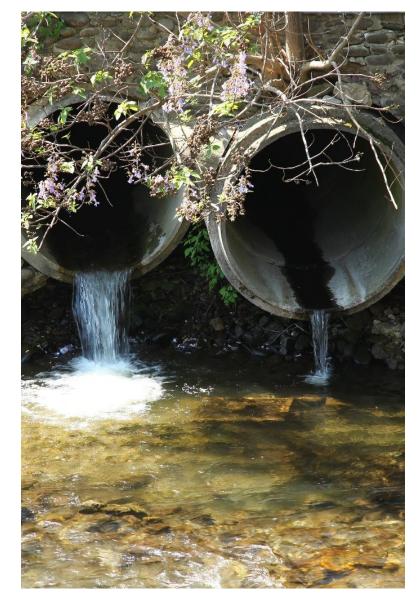
- First year direct discharge
- Settling ponds
- Barges



Early source control measures

- "Closure" of waste management units
 - Surface impoundments emptied and excavated.
 - Dredged discharge/barge area along shore.
- 1996 EPA and Occidental both concluded the groundwater plume needed to be contained
 Shallow pumping/injection groundwater well system .
 Removed approximately 150,000 pounds of solvent.
 - This system did not contain the plume.

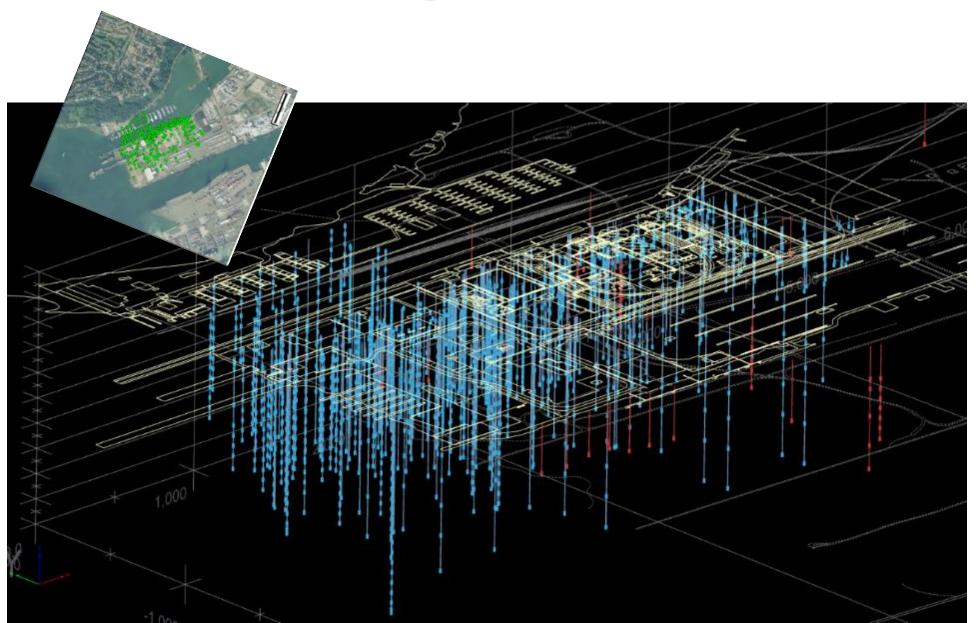
Solvent Loss Estimates



• 457 million pounds of solvent were produced.

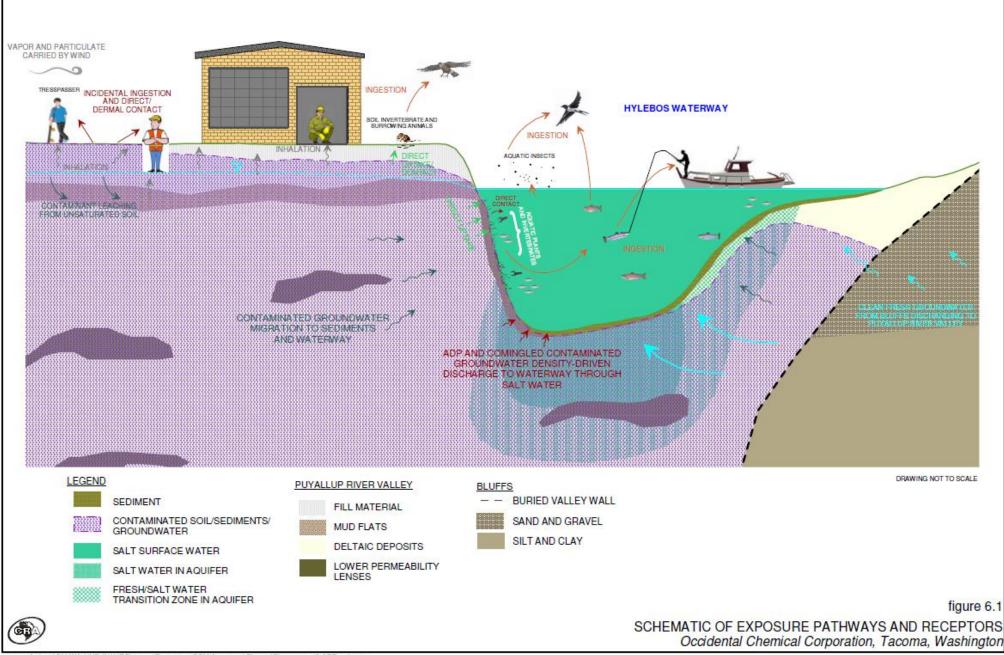
I million pounds lost to subsurface.

Remedial Investigation Data Points





07M3-MS/PREBOHIGH-WACC3 JUN 18, 2015



07843-A6(131)GN-WA-HYD (N:HEGI07843/Report131-CSM-Aug-2013/Figures/Figure 6.1.srf) APR 11/2014

Sediment/Porewater Sampling 2016



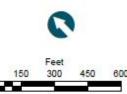
LEGEND

- Porewater Target Location
- Sample Collection Successful
- Unsuccessful Sample Attempt

All result intervals are non-detect for cVOCs with a MRL of 0.5 µg/L

NOTES:

Sample boxes represent the depth intervals where a sample was attempted. The top box represents the 10cm depth, then next box down represents the 30cm depth and the final box the 90cm depth.



Feasibility Study Report

Out for public comment through March 13

Public Hearing March 8

Contains the required range of technologies

Seven alternatives with 4 enhanced scenarios

Additional Draft Documents for Review

- Vapor Intrusion Investigation Reports
- Sediment/Porewater Report
- PH Study by the University of Washington
- Agreed Order under the Model Toxics Control Act

