

### **Crude Oil Transport on the Hudson**



Putnam County Legislature Health, Social, Educational & Environmental Committee Meeting

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### Crude Oil = Unrefined Petroleum

Bakken crude is volatile. It floats. (North Dakota)



Tar sands crude is heavy.
It Sinks. (Alberta, Canada)





Up to 6.3 billion gallons shipped Per Year

~10 million gallons per day

Exxon Valdez spilled 11 million gallons (NOAA)

- 2 unit trains/day on CSX Hudson line
  - Approx. 3M gal. per train  $\rightarrow$  Philadelphia-area refineries
- 1 barge/day from Global Partners Albany terminal
  - Approx. 4M gal. per barge → New Jersey refinery
- 1 tanker/week from Buckeye Partners Albany terminal
  - Approx. 8M gal. per tanker 

    New Brunswick, Canada, refinery

### **Crude Oil Transport Risks**





### Dangerous DOT-111s on the Tracks

1991 NTSB Finds DOT-111s puncture prone

82% of tank cars travelling through New York are inadequate

Comprehensive spill response plans are not required by law for crude by rail.



# Bakken-to-East Coast Virtual Pipeline Route Crude Oil Trains, Barges and Ships



Sources: Energy Information Administration; BNSF; Canadian Pacific; CSX

GRAPHIC BY GUILBERT GATES AND JOE BURGESS

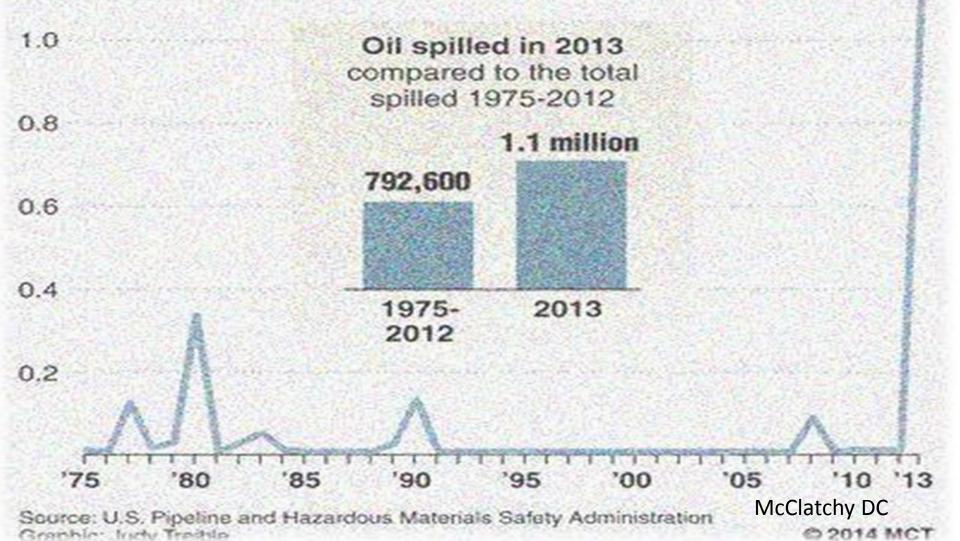
**Photo: New York Times** 



# Spike in oil spills from trains

More crude oil was spilled in U.S. rail incidents in 2013 than the total spilled from 1975-2012. Amount spilled per year, in millions of gallons:

1.1 million

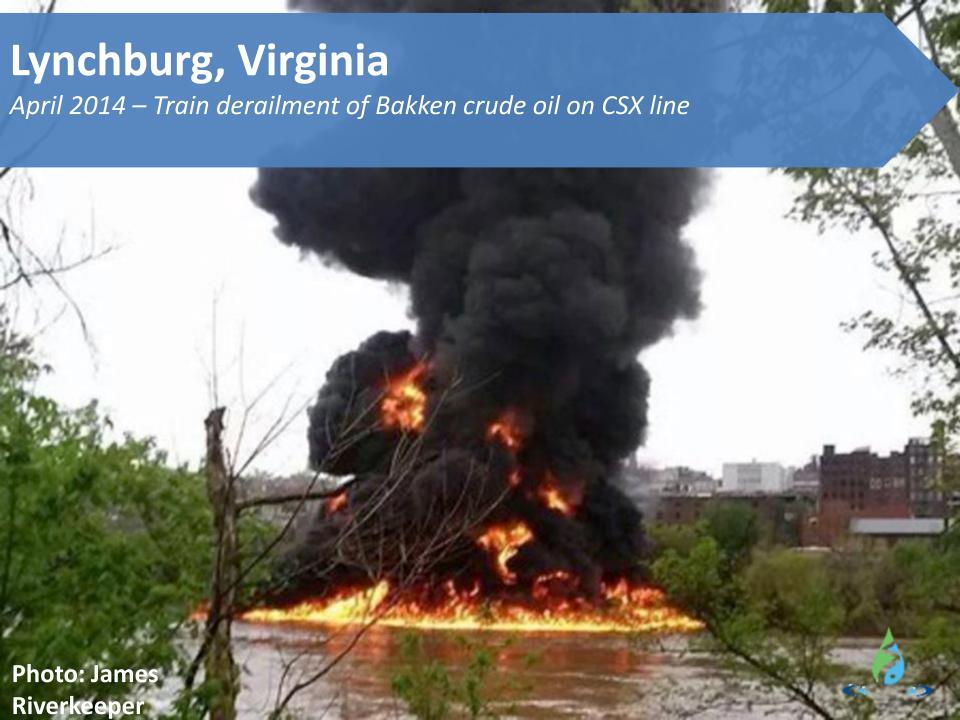




Train Derailment & Explosion of Bakken Crude Oil

47 people killed, downtown buildings leveled









### Crumbling Concrete - Failing Bridges? Hudson River at Risk From Crude Oil







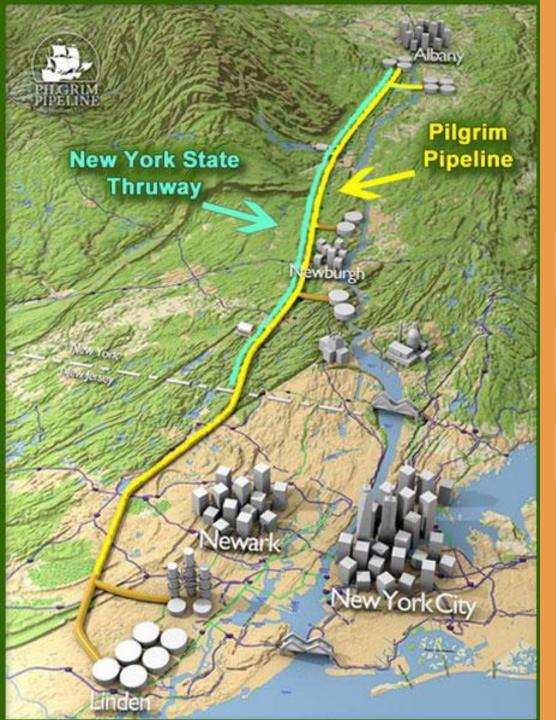
# River Vessels



### Upper Hudson River, December 2012

Stena Primorsk tanker (12 million gallons) runs aground near the Port of Albany





# Proposed Pilgrim Pipeline



# What if it Happened Here?

A Bakken oil train explosion and fire in North Dakota in 2013 required an evacuation in a 5-mile radius.

Toxic smoke from a similar oil train derailment and explosion in Orange County, carried west to east on the Hudson's prevailing winds, could force **evacuation** of communities in Putnam County.





# Local Economies At Risk

- Tourism: \$4.7 billion industry
- Public and private investments in waterfront revitalization, public access and water/sewer infrastructure
- Real estate
- Recreation (fishing, sailing, kayaking, swimming)

### **Drinking Water At Risk**

100,000+ people rely on Hudson River drinking water

•Poughkeepsie – 75,000

(city, town and other neighboring towns)

• **Hyde Park** – 12,288

(including Harbourd Hills and Staatsburg water districts)

- Rhinebeck 5,300
- **Highland** 5,000
- **Port Ewen** 4,500

Major industries also at risk – IBM, power plants, and others.



# Hudson River At Risk

- Spawning fish habitat critical to Atlantic populations, many of which already endangered or depleted
- Significant bird habitat, including rare and endangered species
- Billions invested in toxic cleanup, public access and community waterfronts
- 40 state-designated significant habitats deemed "irreplaceable"

NEWS

## **EYEWITNESS NEWS INVESTIGATION FINDS BRIDGES IN APPARENT** DISREPAIR

Watch: http://7online.com/447890/



Investigative reporter Jim Hoffer has details of an Eyewitness News investigation that found railroad bridges in apparent disrepair.

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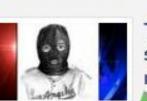


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Texas sketch mask Updated

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### **Expansion Plans**

Increase in quantity, plus addition of heavy crude

### Port of Albany

- Global Partners application to install boilers to transfer heavy crude oil
- Buckeye Partners vision for Albany and the Hudson River as key virtual pipeline between Canadian tar sands and BORCO terminal in the Bahamas

### **Actions We Can Take**



- Environmental review before expansion of crude oil terminals
- Tougher rail safety regulations and independent inspections
- Increase NYS spill fund & Raise Spill Liability caps to the federal maximum
- Municipalities speaking out



Photo: ALLYSE PULLIAM/For the Times Herald-Record