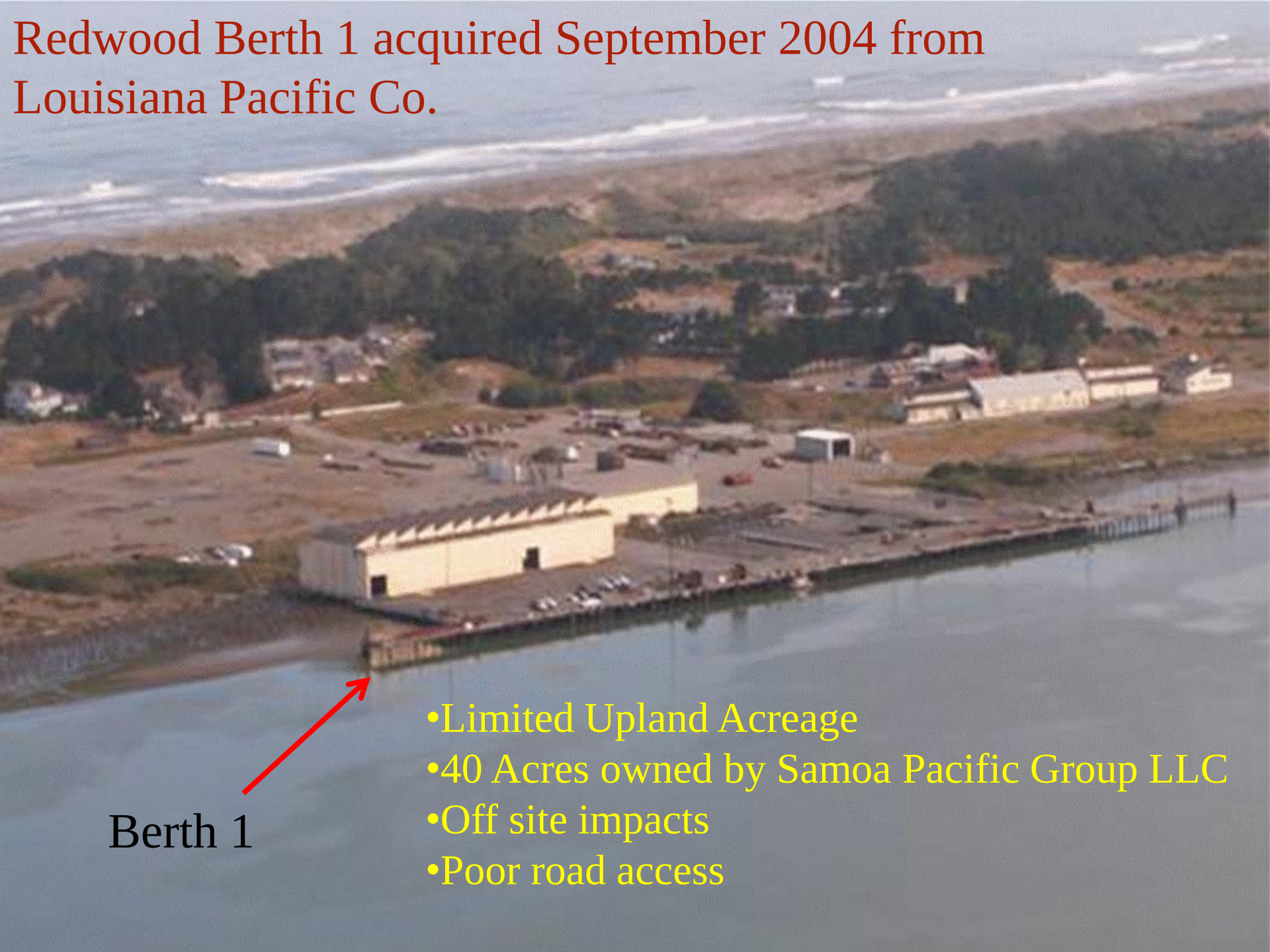
How competitive are we?

- Inefficient access-40% Higher labor cost
- Shortage of experienced Longshoremen
- Wood product cost higher-short harvest season
- Draft limits-can't fully load vessels-2nd Port call
- Ship size limited due to Tug horse power
- Lack of Public Docking facility-Open access
- Road access limited and no Rail system

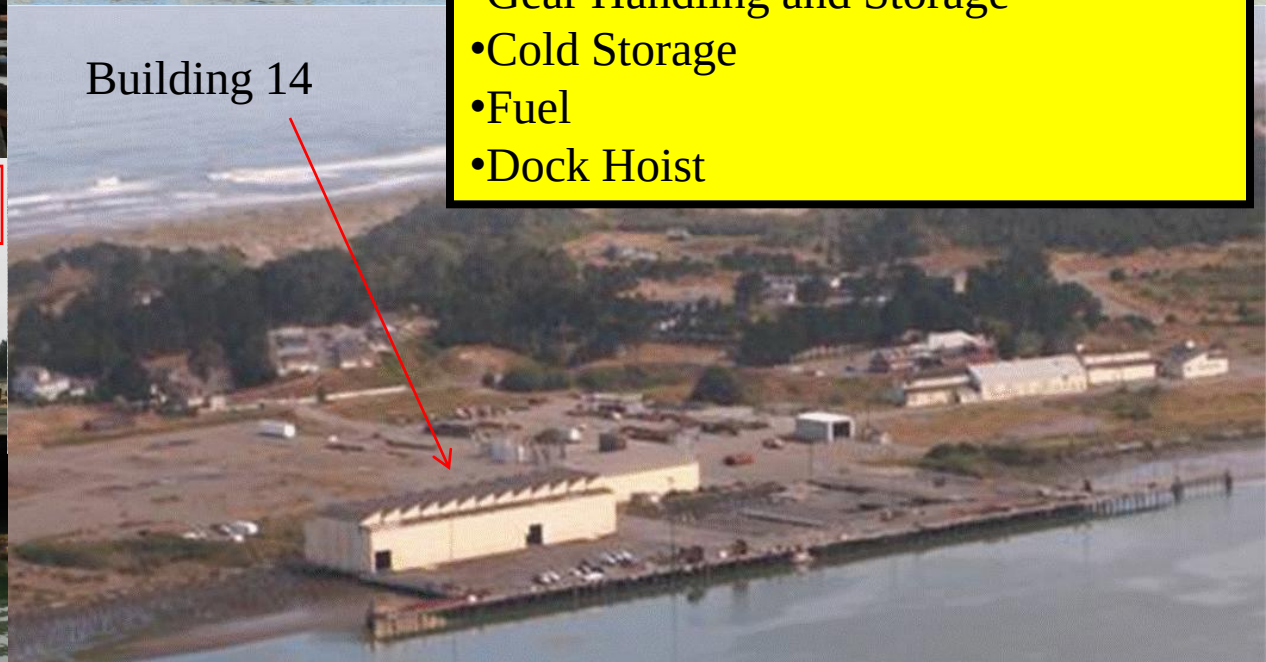
Redwood Berth 1 acquired September 2004 from Louisiana Pacific Co.



REDWOOD MARINE TERMINAL BERTH 1

Dock Repair & Improvements

Commercial Fisherman Support Center
- Gear Handling and Storage
- Cold Storage
- Fuel
- Dock Hoist



-2007 Marina Dredging: $11.54 per Cubic Yard

-168,000 Cubic Yards Woodley Island Marina
Cost $1,602,720

-86,000 Cubic Yards City of Eureka Marina
Cost $1,046,909 (includes additional piping charge)

-Mobilization Fee $609,500

-Total Cost $3,259,129

2012 Survey Results

- Average of 2.5 ft. (30 inches) of Material in Marina above Project Depth
- Marina has approximately 57,661 cu. yards of build-up at this time in survey area
- Last Dredge Cycle removed approximately 168,000 cu. yards to Project Depth
- Almost 6 Years since last Dredge Cycle equaling almost 6 inches of build-up per year
- 6 inches equals approximately 10,000 cubic yards in survey area
- In 4 years the Marina will lose approximately 2 feet of depth causing some boats to possibly be aground at low tide.

Dredge Equipment Disposal Options, Operations Cost Review

- Cutter Head Suction- Flow Lane- $2/cuyd
- Hooper Dredge-Ocean Disposal- $4/cuyd
- Clam Shell/dump barge-Ocean- $7/cuyd
- Cutter Head Suction-Beach/WI- $11/cuyd
- Cutter Head Suction-Beach/City- $15/cuyd
- Clam Shell/upland dewater-reuse- $16/cuyd
- Clam Shell/upland landfill- $30-$50/cuyd

Dredging Solution

- Purchase Cutter Head Dredge and Flow Lane
- Estimated cost $2 million
- Annual dredge volume 50,000 yards
- Available for public and private docks
- Clean material main channel-Corp removal
- Contaminated material Upland disposal
- Equipment available for dock maintenance

The Potential for Beneficial Reuse of our Dredged Material

- Fill (Construction)
- Habitat Restoration & Sea Level Rise Adaptation
  - Beach Placement
  - Raise subsided former tidelands
  - Rebuild Levees – ‘Eco-Levees’
  - Sustain Marshes

Reduce, Reuse, Recycle

King Salmon Dunes built with Recycled Dredge Materials