

Charting a course to _____

PATHWAY Forum
TMDL Meeting #2 of 4
October 25, 2007

Clarity

Meeting Goal

Give input on ways of packaging pollutant control opportunities to meet the clarity challenge

What strategy should we implement to reduce pollutant inputs to Lake Tahoe?

Meeting Objectives: morning

1) Hear and consider base recommendations for stream, forest, atmospheric and urban pollutant reduction

What strategy should we implement to reduce pollutant inputs to Lake Tahoe?

Meeting Objectives: mid-day

- 1) View sample scenarios which illustrate ways to package pollutant control opportunities to meet the clarity challenge
- 2) Discuss and give input on base recommendations for stream & forest pollutant reduction

What strategy should we implement to reduce pollutant inputs to Lake Tahoe?

Meeting Objectives: afternoon

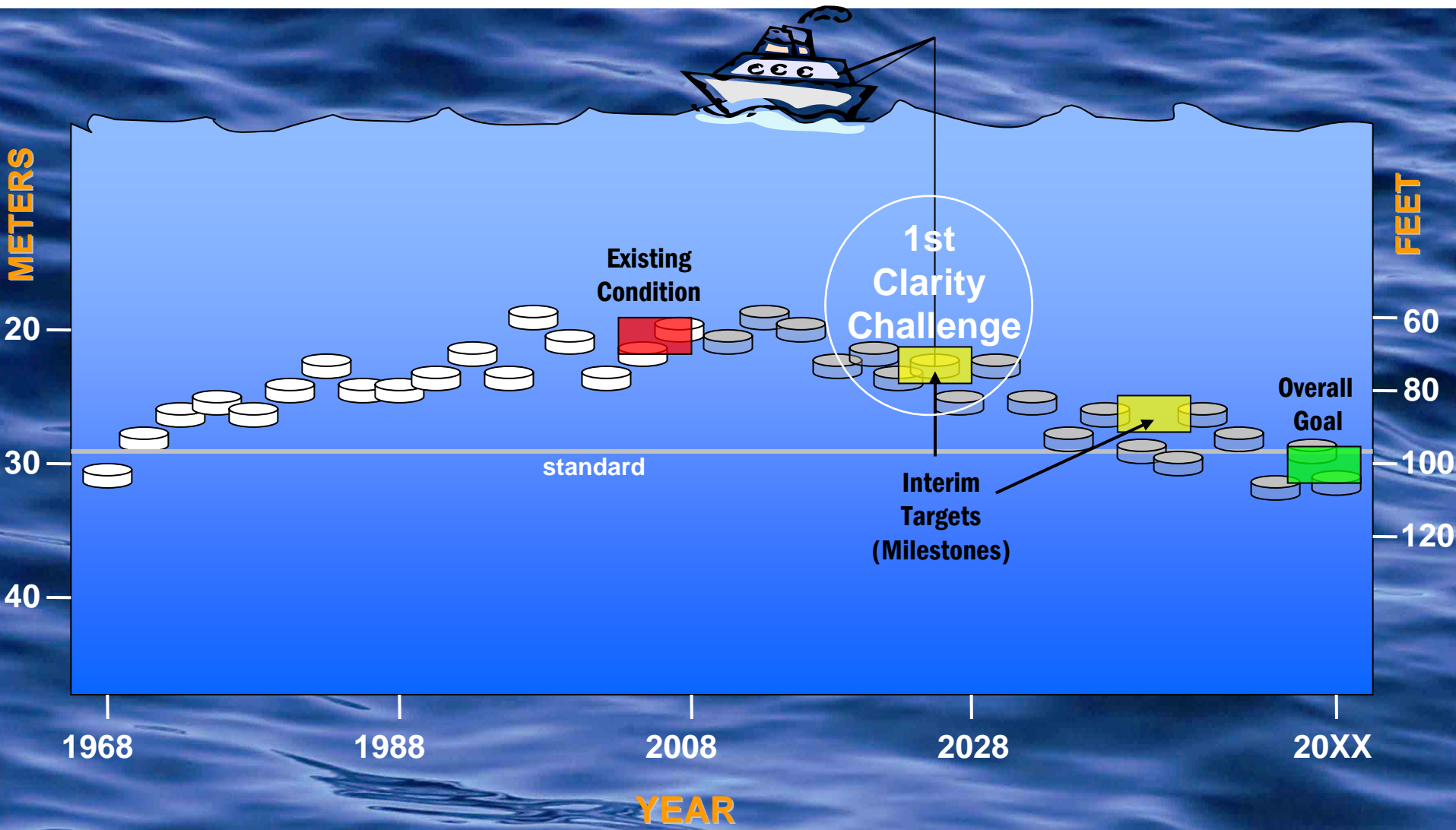
1) Discuss ways of packaging pollutant control opportunities to meet the clarity challenge

Small group and full forum discussion will provide the TMDL team with your input about:

- Individual pollutant control opportunities
- Strengths and weaknesses of the sample scenarios
- The social, technical and financial range of feasibility for reaching the clarity challenge
- Your “integrated package” suggestions

What strategy should we implement to reduce pollutant inputs to Lake Tahoe?

The Clarity Challenge



Pollutant Reduction Opportunity Project

Four Source Category Groups

**Stream Channel Erosion, Forest Uplands,
Atmospheric Deposition, Urban Uplands**

Basin-wide load reduction estimates

**Different “Tiers” of implementation effort
See Handout**

What are the options for reducing pollutant inputs to Lake Tahoe?

Pollutant Reduction Opportunity Project

Load reductions for each source by tier

Cost for each tier of implementation

20-year capital cost

Annual operations and maintenance cost

Handout summarizes project results

Tiers are the scenario building blocks

What are the options for reducing pollutant inputs to Lake Tahoe?

Illustrative Pollutant Reduction Scenarios

Illustrative scenarios include some level of implementation across all source categories

Scenarios illustrate that there are various ways to achieve the clarity challenge

**Illustrative scenarios are to initiate discussion
NOT proposed outcomes**

What strategy should we implement to reduce pollutant inputs to Lake Tahoe?

Illustrative Scenario Components

Approach description

Percent fine sediment reduction by source

Costs

- 20-year capital
- Annual operations and maintenance

Resulting clarity

What strategy should we implement to reduce pollutant inputs to Lake Tahoe?

Example Illustrative Scenario Description

Emphasis of this example illustrative scenario:
Continuation of Current Best-Practices

“This scenario represents continued implementation of current best practices, emphasizing broad implementation of pollutant controls for reducing atmospheric fine sediment and treating urban runoff. This approach will not achieve the Clarity Challenge.”

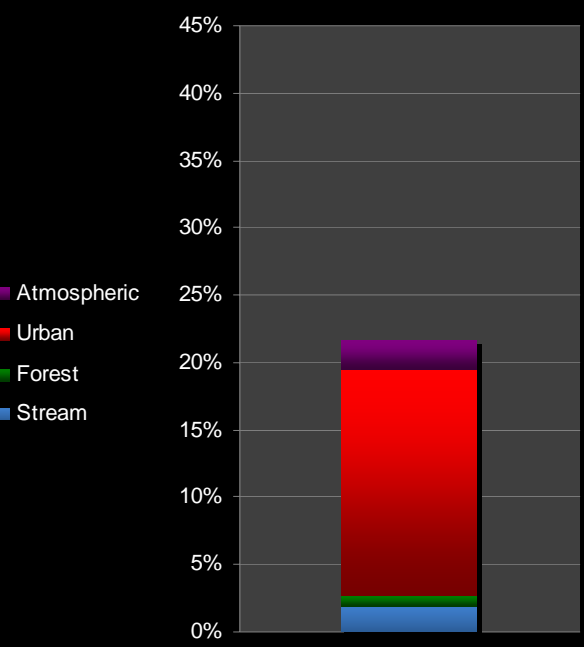
Example Illustrative Scenario Description

- **Atmospheric** fine sediment and phosphorus reduction focus from 70% of roadways & reduced use of woodburning stoves
- **Urban & Groundwater** extending current best practices over 70% of urban area, achieving partial implementation of private property BMPs
- **Forest** treating 80% of unpaved roads, ski runs, campgrounds and other disturbed forested areas using current best practices & standard BMPs fuels treatment projects
- **Streams** combine stream channel rehabilitation and restoration on 80% of the potential project areas on each of the Upper Truckee River, Ward Creek and Blackwood Creek

What strategy should we implement to reduce pollutant inputs to Lake Tahoe?

Example Illustrative Scenario – Data Output

Share of Fine Sediment Budget Reduced



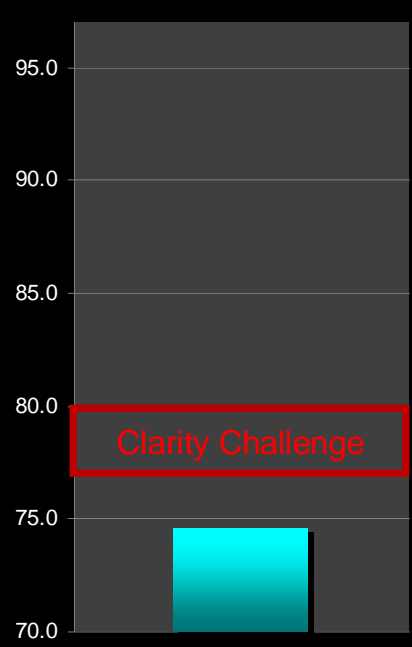
Capital Costs 20 year (Million \$)



Annual O&M Costs (Million \$)



Feet of Clarity (±0.5)



What strategy should we implement to reduce pollutant inputs to Lake Tahoe?

Ways of packaging to meet the Clarity Challenge

Discussion

- **New / different package approaches you suggest**
- **Your thoughts about the sample scenarios – what are their strengths, weaknesses, benefits, tradeoffs**
- **Your sense of the social, technical and financial range of feasibility for reaching the clarity challenge**
- **Your input about individual pollutant control opportunities – especially for atmospheric and urban sources**

What strategy should we implement to reduce pollutant inputs to Lake Tahoe?