

Washington Department of Ecology
Simpson Tacoma Kraft
Public Footprint Meeting



Tuesday, October 9, 2007
Welcome

Introductions

Department of Ecology

- Marc Crooks, Environmental Engineer 5
- Angie Fritz, Environmental Specialist 2
- Carol Kraege, Industrial Section Manager

Earth Economics

- Dr. Paula Swedeen, Project Leader
- James Pittman, Public Involvement

Simpson Tacoma Kraft

- Don Johnson, Vice President and General Manager (GM)
- Greg Narum, Environmental Manager
- Ron Stuart, Environmental Engineer
- Dave McEntee, Simpson Corporate Vice President
- John Conkle, Pulp Mill Manager and new GM



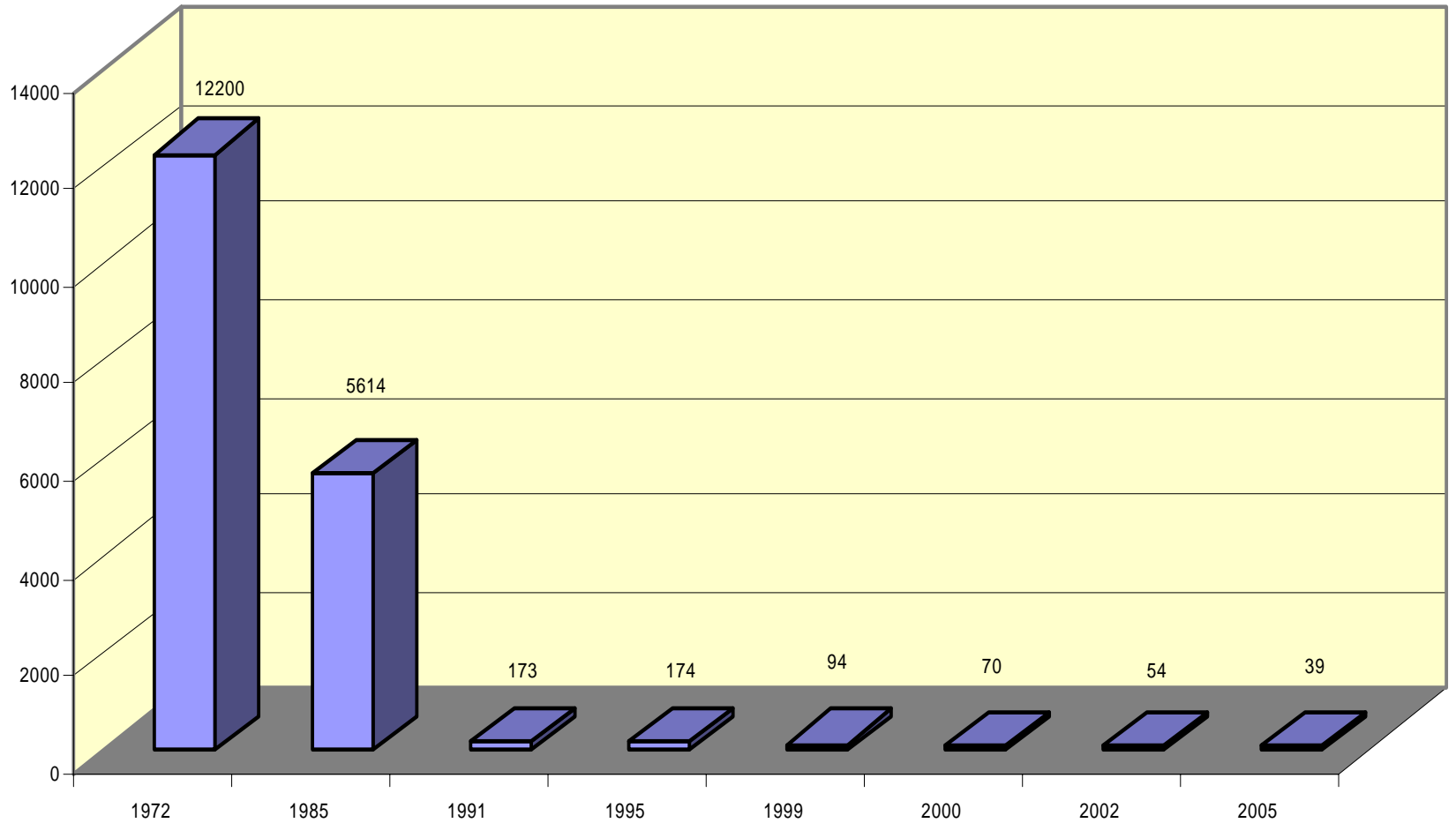
Simpson Tacoma Kraft Company

**Progress Towards Pollution Prevention
and Sustainable Operation**

1985 - today

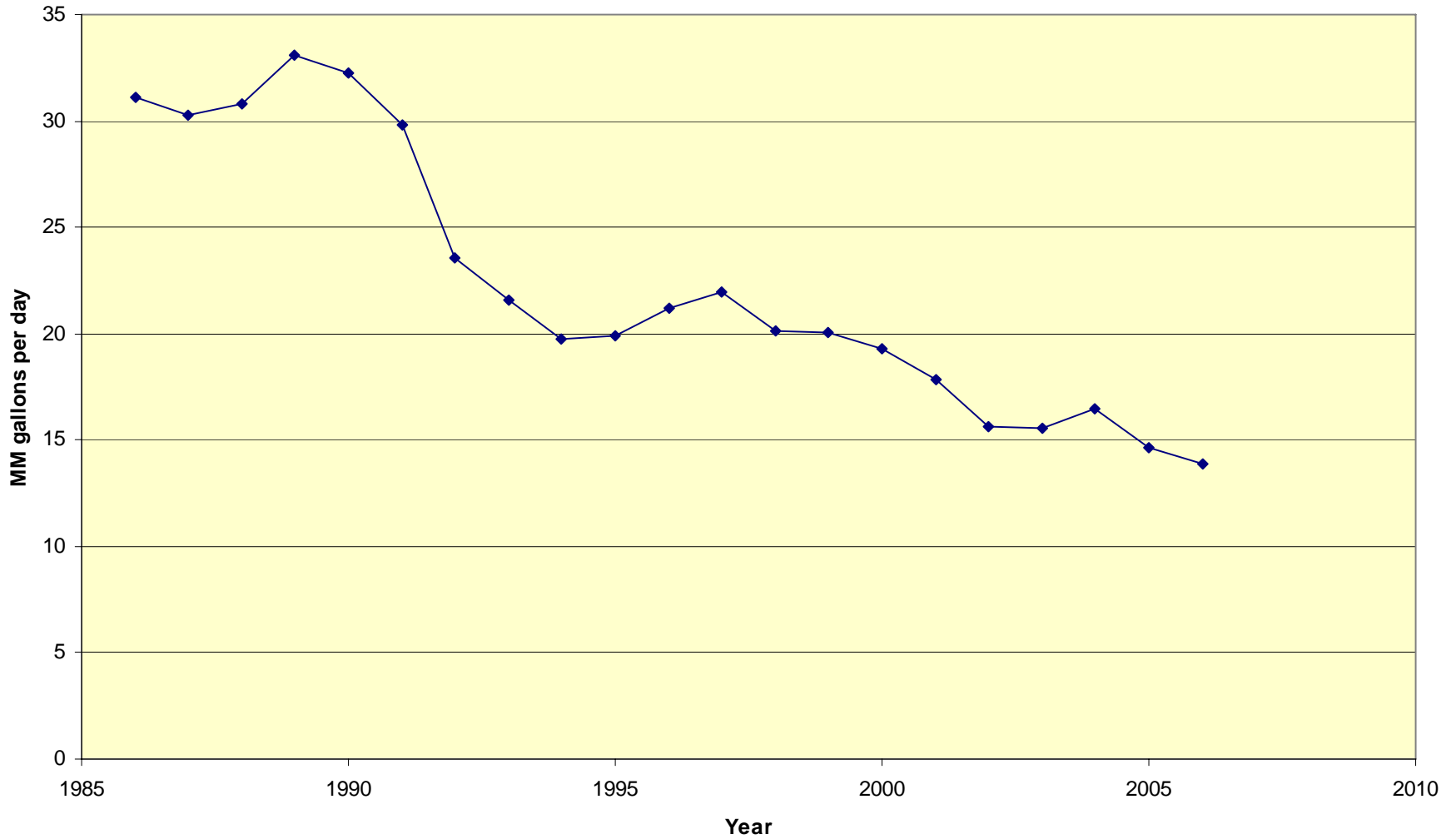


Odor Gas (H₂S and MeSH) Emissions



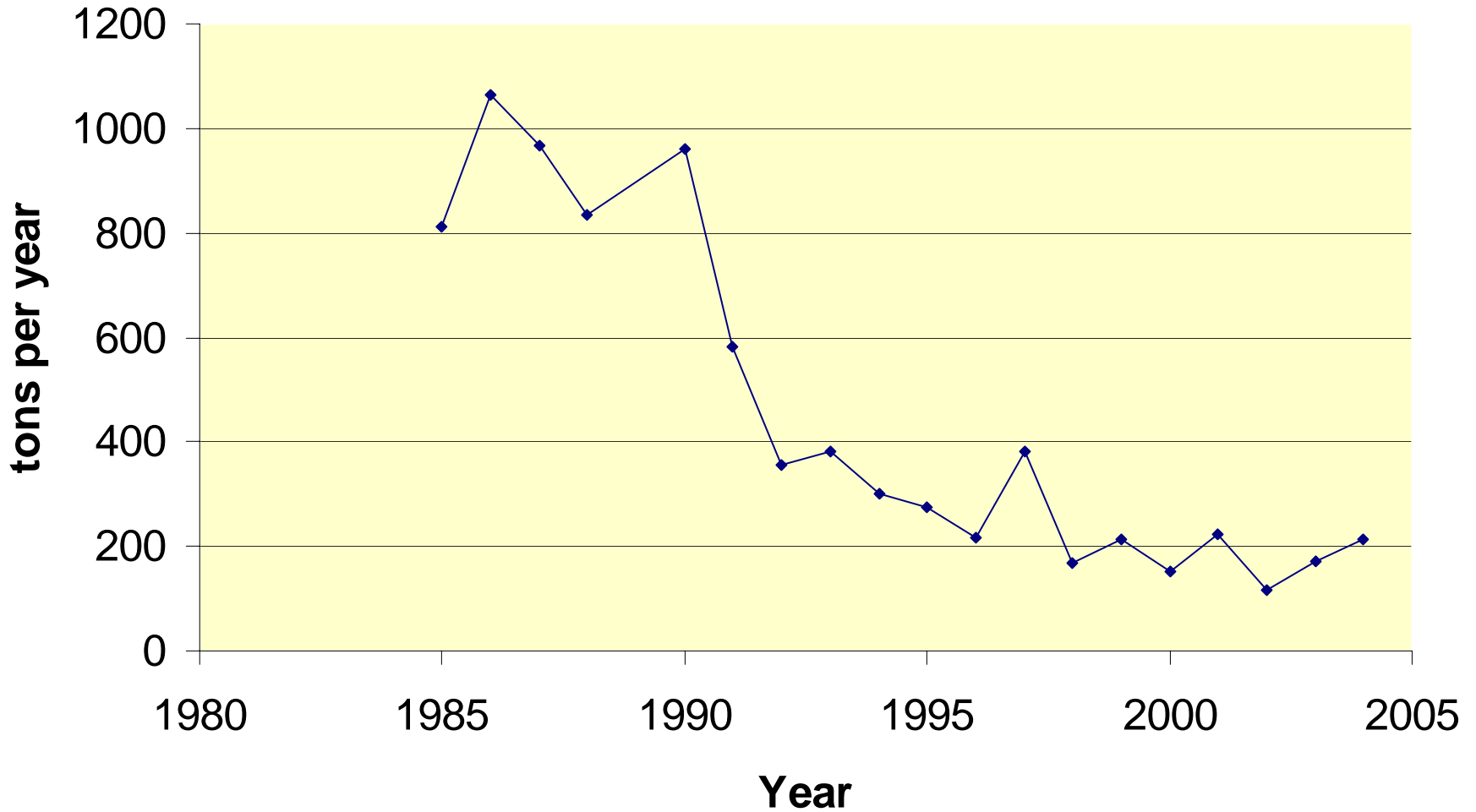


Mill Fresh Water Consumption





Particulate (PM) Emissions History





Recent highlights:

Greenhouse Gases. Between the years 2000 and 2006 the mill reduced total annual emissions of carbon dioxide by 22,000 metric tonnes by substituting renewable biomass fuels for fossil fuels and by implementing energy conservation projects.

Energy Conservation. Between the years 2000 and 2006 the mill reduced total purchased energy, including fuel and electric power, by 1.1 trillion Btu per year on a production-normalized basis.

Air Emissions. In 2005, the mill reduced emissions of odorous TRS gases by about 70% from previous levels when the weak off-gas (HVLC) system started operation.



Air Emissions. Between 2003 and 2006 the mill reduced total emissions of sulfur dioxide (SO₂) by 300 tons per year by establishing a beyond-compliance internal standard for SO₂ emissions by optimizing combustion control.

Water Emissions. Between 2000 and 2006 the mill reduced the discharge of Adsorbable Organic Halide (AOX) by-products from pulp bleaching by more than 5000 kg on a production-normalized basis.

Waste Reduction. Beginning in 2004 the mill started to beneficially use wood-fired boiler ash in manufacturing cement rather than disposing of it in a landfill. In 2006, we used 16,000 tons in this manner.



Moving Forward:

Simpson is considering a cogeneration project that would generate more than 40 Megawatts of electrical power using renewable fuels.

40 Megawatts is enough power to serve about 10,000 homes.

Greenhouse Gas emissions would be about 300,000 tons per year less than if the same amount of power was generated by burning fossil fuels.

Meeting Agenda

- Welcome and Introductions
 - Introduction of project and team (10 min.)
 - Current mill activities (10 min.)
 - Overview of agenda (5 min.)
 - General question & answer session (5 min.)
- Participation in Indicator Development
 - Description of indicator concept and examples (5 min.)
 - Task clarification and discussion (5 min.)
 - Small group brainstorming (45 min.)
 - Social indicators
 - Environmental indicators
 - Economic indicators
 - Report back to large group (20 min. – All)

Meeting Agenda continued...

- Presentation of draft indicator list (10 min.)
- BREAK (10 min.)
- Collaborative preference ranking of indicators (15 min.)
- Full group brainstorm on performance
 - improvement strategies (20 min.)
- Summary and Conclusion
 - Review of progress (5 min.)
 - Presentation of web page, survey and next steps (10 min.)
- Thanks and closing (5 min.)

Industrial Footprint Project

- A comprehensive analysis of an industrial facility's impact on their community
- Attempt to develop an analysis for an industry sector.
- Complete an energy challenge.
- Choose a future industrial sector for analysis.
- Write a report which will include a conclusion and recommendation for any future efforts.

Budget

- Total budget is \$254,265.
- EPA grant amount is \$182,105.
- Ecology matching funds amount is \$72,160.
- Consultant team contract amount is \$100,000.

Milestones

- **Secure mill participation**
- **Select sector indicators**
 - Identify and draft sector indicators
 - Finalize sector indicators
- **Conduct community outreach**
 - First round of stakeholder meetings
 - Online comment form posted on October 31
 - Second round of stakeholder meetings
 - Online comment form posted
 - Final stakeholder report
- **Select indicators for 8 mills**

Milestones continued...

- **Amend Quality Assurance Project Plan (QAPP)**
- **Develop baseline mill and sector footprints**
 - Collect data
 - Spreadsheet tool for calculation developed
 - Baseline footprints complete
- **Initiate and conduct energy challenge**
 - Report evaluating each mills carbon footprint
- **Final Report**

Web Page

<http://www.ecy.wa.gov/programs/swfa/industrial/IndFootprint.html>

- Background information
- Most recent Quarterly Report to EPA
- Full milestone chart

General
question and answer
session

Participation in Indicator Development

1. Clarification and examples of indicators...
2. Small group brainstorm of indicators; 15 minutes each on social, environmental, and economic (choose a person to record list on paper)
 - All ideas are invited; creativity encouraged.
 - Build on each other as thinking sparks new ideas.
 - Judgment, debate, criticism are not welcomed.
3. Draft indicator list review
4. Preference ranking process
5. Further discussion and brainstorming.

Questions on this indicator development process?

Social Indicators

- Environmental Nuisance
- Labor Practices and Decent Work
- Safety
- Human rights
- Environmental Justice
- Social Awards

Environmental Indicators

- Materials
- Energy
- Water
- Air
- Biodiversity and natural Habitat
- Remediation Projects
- Compliance
- Waste

Economic Indicators

- Payroll, including benefits
- Federal and State Taxes
- Subsidy or government-assisted financing
- Community Involvement

Small Group Report

Report back to large group

Draft Indicators

Present current status of draft indicators information

10 Minute Break

Ranking

Collaborative preference ranking
of indicators

Full Group Discussion

- What other issues or opportunities do you see for mill participation in the Industrial Footprint Project?
 - Indicator scoring and tracking change over time.
 - Proposed strategies for performance improvement.
 - Index or group of indicator categories.
 - Other possibilities for sustainability innovation?

Summary

- Review Progress
- Web page updates
- Online comment form
- Next steps

Conclusion

Thank you!

<http://www.ecy.wa.gov/programs/swfa/industrial/IndFootprint.html>