



ALASKA
Department of
Environmental
Conservation

Department of Environmental Conservation (DEC)

**Cruise Ship Waste Water Science Advisory Panel
Teleconference**

**February 7, 2012
8:00 AM – 9:00 AM (AK Time)**

Present

X
X

X
X
X
X
X
X

Panel members

Mark Buggins*
Dr. Reinaldo Gonzalez
Kenneth Fisher
Juha Kiukas
Lamberto Sazon
Lincoln Loehr**
Hermann Josef-Mammes*****
Steve Reifentuhl***
Michelle Ridgway****
Dr. Silke Schiewer
Dr. Simon Veronneau

Municipality of Sitka
Burns and McDonnell
EPA
Ecomarine
United States Coast Guard
Stoel Rives LLP
Meyer Werft
Southeast Herring Cons. Alliance
Oceanus Alaska Env. Services
U of A Environmental Engineering
Quinnipiac U School of Business

- * Mark Buggins fills the legislatively mandated coastal community Panel seat.
** Lincoln Loehr fills the legislatively mandated cruise ship industry Panel seat.
*** Steve Reifentuhl fills the legislatively mandated commercial fishing industry Panel seat.
**** Michelle Ridgway fills the legislatively mandated NGO Panel seat.
***** Hermann Josef-Mammes was substituting for Thomas Weigend

Others Present on the call

Michelle Bonnet ADEC
Rob Edwardson ADEC
Melissa Goldstein ADEC
Albert Faure ADEC
Ed White ADEC
Michelle Bonnet ADEC
Andrew Sayers-Fay ADEC
Krista Webb OASIS/ERM Facilitator
Mary Parke OASIS/ERM
Max Schwenne OASIS/ERM
Eric Zentner Boreal Communications (sub to OASIS)
Mike Tibbles ACA
Jon Turvey Holland America

Meeting Objectives

- Panel will be up to date on DEC progress since the November teleconference and planning for the April 2012 Technology Conference.
- Panel will be up to date on the status of the BAT analysis.
- A draft agenda for a March teleconference will be completed. (objective not met)
- A draft agenda for the April 25-26 meeting will be completed. (objective not met)

Summary

8:00 a.m. - 8:10 a.m. Krista Webb - Facilitator

- Welcome and introductions
- Review, finalize, and approve draft agenda

8:05 a.m. – 8:15 a.m. April 27th Technology Workshop

- Ms. Krista Webb outlined the format, content, and the role of the panel at the upcoming technology workshop scheduled for April 27, 2012.
- During the workshop the public will be introduced to a set of posters of various media depicting the different aspects of the project. The workshop will not include formal presentations.
- Ms. Denise Koch will be working with a graphics design firm (Pacific Rim Media) that has been engaged to ensure that the information and data gathered during the project is understandable and accessible to the public.
- The panel will invite as many vendors as possible to discuss the specific technologies that are under consideration.
- Ms. Webb and Mr. Edwardson suggested that members of the panel tend the displays and answer questions from the public explaining the process of developing reports for the ADEC commissioner. She added that in addition to providing information to attendees who are unfamiliar with the project, the workshop will also provide up to date information for those familiar with the work of the panel.
- OASIS will establish a draft storyboard on a FTP site and will data and other information which will be presented during the workshop with the Panel for review. Panel members were encouraged to make comments and provide input on the storyboard and come forward with additional information they would like to contribute to the workshop.

8:15 a.m. - 8:30 a.m. STATUS UPDATE ON THE BEST AVAILABLE
TECHNOLOGIES (BAT) ANALYSIS

- Ms. Webb presented a status update on the Best Available Technologies (BAT) analysis and its associated report.
- Ms. Webb introduced Dr. Mary Parke who is directing the BAT analysis. Dr. Parke holds a Ph.D. in environmental engineering with a minor in environmental chemistry. She has a total of 34 years of experience working in the field of industrial wastewater management.
- Ms. Webb and Dr. Parke explained that the standard process for evaluating all options and alternatives was found to be excessively complicated when it was applied to the evaluation of wastewater technologies. To simplify the analysis, Dr. Parke applied the EPA measurement which is commonly used in making decisions concerning air quality. According to this process, alternatives are initially ranked as either feasible or infeasible. Infeasible options are then immediately excluded while feasible options are ranked according to a specific set of criteria to determine the BAT control technology. Ms. Parke commented that while cost is typically not a key criteria in the ranking process, it was applied in the draft version of this analysis to satisfy the legislative mandate that the BAT be both 'economically feasible' and 'technologically effective'.
- Ms. Webb and Dr. Parke recently drafted a survey that they plan to send to cruise operators to try and obtain missing information which will facilitate the BAT analysis. Ms. Webb explained that while the survey is loosely based on the 2004 EPA cruise ship wastewater questionnaire, it is considerably smaller than that document. Ms. Webb encouraged the panel members to review the draft questions and offer their suggestion on how they could be improved to assist the panel in the fulfillment of its legislative mandate.
- Ms. Webb will send out the draft matrices from the preliminary BAT analysis and contact panel members individually for their suggestions. She urged the members to submit their suggestions as quickly as possible in order to meet the project's tight schedule. She welcomes any advice from the panel on how it can work to meet the schedule.
- Mr. Loehr suggested the time to respond to the questionnaire should be extended from 30 to 45 days since the questions, in some sections, asks that extensive information be provided for individual ships and facilities.
- Mr. Kiukas asked whether Dr. Parke had a backup plan in case the industry is not able to provide all of the information that is requested in the questionnaire. Dr. Parke replied that she has been working with the EPA to obtain the information necessary to populate BAT matrices. She added, however, that much of this information is old, and they will attempt to get as much updated information as they can from the industry before the April meetings. Ms. Webb added that if the information needed to complete the BAT analysis is missing at the time of the April meetings, the team can instead describe how this information will be used once it becomes available.
- Ms. Webb asked team members if they had any additional comments on the evaluation of potential technologies. Mr. Kiukas suggested that the Panel should look into electro- coagulation, which is currently being tested in Europe in metal removal applications.

- ACTION ITEM Ms. Webb previously sent draft matrices from the preliminary BAT analysis and will contact panel members individually for their suggestions.

8:30 a.m. - 8:45 a.m. Schedule of Upcoming Events

- Ms. Webb discussed how the aforementioned items will affect the schedule of upcoming events. A teleconference will be scheduled either March 16th or 20th to review the Panel's responses to the draft survey and determine the timeline of preparations for the April meetings.

ACTION ITEM: Ms. Webb will send reminders of the face-to-face meeting, scheduled for April 25th, and the technology workshop; scheduled to be held on April 27th.

ACTION ITEM: Ms. Webb will send panel members meeting wizard to schedule the March teleconference.