

PUBLIC HEARING

SYDNEY TAR PONDS AND COKE OVENS SITES  
REMEDIATION PROJECT

JOINT REVIEW PANEL

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V O L U M E      5

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HELD BEFORE:            Ms. Lesley Griffiths, MCIP (Chair)  
                          Mr. William H.R. Charles, QC (Member)  
                          Dr. Louis LaPierre, Ph.D (Member)

PLACE HEARD:           Sydney, Nova Scotia

DATE HEARD:           Thursday, May 4, 2006

PRESENTER:             Environment Canada:  
                          Mr. Jim Abraham  
                          Mr. Bill Ernst  
                          Mr. Michael Hingston  
                          Mr. Greg Bickerton  
                          Ms. Maria Dober  
                          Mr. Chris Marshall  
                          Ms. Anne Marie Drake

                          Health Canada:  
                          Mr. Jim Abraham  
                          Mr. Bill Ernst  
                          Mr. Michael Hingston  
                          Mr. Greg Bickerton  
                          Ms. Maria Dober  
                          Mr. Chris Marshall  
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1            --- Upon commencing at 9:04 a.m.

2                                 THE CHAIRPERSON: Ladies and gentlemen,

3                                 good morning.

4                                 We're going to begin this morning's

5                                 session.

6                                 Before we return to this morning's

7                                 presenter, which is Environment Canada, I have two things

8                                 under the heading of housekeeping.

9                                 The first thing, I would like to encourage

10                                all presenters to submit a copy or an outline or summary

11                                of their presentations ahead of time, if it's at all

12                                possible.

13                                We asked for that in our procedures for

14                                this hearing. Some presenters have been doing it and we

15                                are very grateful. I think it really improves the

16                                effectiveness and efficiency of the Panel's review of the

17                                presentation, and our ability to ask questions.

18                                I think it helps other participants as

19                                well, so I would really encourage you, if you are a

20                                registered presenter, please try to get us a copy of

21                                something about your presentation ahead of time. You can

22                                give that to the Secretariat.

23                                And the second thing we need to do is, I

24                                will ask if any of the participants in the hearings who

25                                have made undertakings have anything that they wish to

1 submit, and I will turn first to the proponent, the  
2 Sydney Tar Ponds Agency.

3 MR. POTTER: Yes, we do. There was a  
4 request yesterday for some mapping of the Tar Ponds,  
5 showing the legal line -- federal/provincial line.

6 Mr. Brophy was the person asking that we  
7 -- Mr. Brophy yesterday reviewed a map that was suitable  
8 and it's actually in the EIS report, Volume 1, Table 1.3-  
9 1, for the people who would like to reference it. I'm  
10 sorry, Figure 1.3-1.

11 THE CHAIRPERSON: Thank you very much.

12 Are there any other parties who made  
13 undertakings yesterday who have anything they would like  
14 to submit?

15 If not, I would like to welcome our next  
16 presenters from Environment Canada, and you have 40  
17 minutes to do your presentation.

18 --- PRESENTATION BY ENVIRONMENT CANADA (MR. JIM ABRAHAM)

19 MR. ABRAHAM: My name is Jim Abraham and  
20 I'm the Acting Director General for Environment Canada  
21 here in the Atlantic -- Atlantic Region.

22 I'd like to thank the Panel for this  
23 opportunity to share Environment Canada's perspective on  
24 the information contained in the Environmental Impact  
25 Statement.

1                           Just to point out, that I'm joined here by  
2 core members of our team, and several departmental  
3 reviewers of the EIS.

4                           On my left here is Bill Ernst. Bill's  
5 specialty is toxic chemicals and ecological risk  
6 assessment.

7                           Michael Hingston is our air quality  
8 specialist in the middle, and on the far end is Greg  
9 Bickerton, and Greg is from our National Water Research  
10 Institute in Burlington, and he's a hydrogeologist.

11                          Chris Marshall, in the middle, to my  
12 right, he's from hazardous waste unit at our national  
13 headquarters, and his focus during the presentation and  
14 the questions is with respect to regulations, respecting  
15 PCBs.

16                          And then, of course, we have two experts  
17 -- two specialists from our Sydney Tar Ponds office,  
18 Maria Dober, who is next to me and Anne Marie Drake, and  
19 they've worked on the file for quite a few years.

20                          Maria has worked on the file for the last  
21 10 years and Anne Marie for the last five years.

22                          There's several other key reviewers who  
23 have participated in the review of the document, and just  
24 to point out that if there are any questions that pertain  
25 to their particular area of expertise, we hope that the

1           Panel will permit us some time to obtain answers to some  
2           of the questions detailing those, perhaps, technical  
3           questions.

4                         I'm going to start off by describing  
5                         Environment Canada's role and responsibilities in this  
6                         phase of the Project.

7                         As many of you are aware Environment  
8                         Canada has had as long history with this file.  
9                         Environment Canada is the responsible authority and a  
10                         federal authority under the Canadian Environmental  
11                         Assessment Act.

12                         Now, as a responsible authority our  
13                         department is obliged to make project related decisions  
14                         as a result of the potential requirements for  
15                         authorization under the Federal Mobile PCB Treatment and  
16                         Destruction Regulations, which fall under the Canadian  
17                         Environmental Protection Act or CEPA.

18                         In addition, it is possible that a  
19                         Disposal at Sea Permit may be requested for the disposal  
20                         of material in the North Tar Pond.

21                         Now, as a federal authority, Environment  
22                         Canada is in possession of specialists or expert  
23                         information or knowledge in a number of areas pertinent  
24                         to the Project. And, therefore, is in a position to  
25                         provide such information and advice to the Panel.

1                   In this capacity we have the  
2 responsibility to identify issues, ask questions and make  
3 recommendations to the Panel.

4                   Now, we, in Environment Canada, we've  
5 reviewed the Environmental Impact Statement, the  
6 Supplemental Information Responses, two Information  
7 Requests that the proponent has provided, and in  
8 conducting the review of the EIS we recognized that there  
9 was a relatively short time frame in which to fully  
10 analyze a great deal of very complex data.

11                  We did put the necessary resources in  
12 place to conduct a comprehensive review, and as a result  
13 we called upon several specialists with expertise in a  
14 variety of program areas.

15                  The department's written submissions and  
16 information requests outline our views, following a  
17 thorough review of the EIS, as well as the Supplementary  
18 Information.

19                  Now, our submissions identify issues where  
20 further clarification should be provided and we make  
21 recommendations to this Joint Panel Review for your  
22 consideration.

23                  Now, it's my understanding that a great  
24 deal of information has been presented and discussed over  
25 the course of the hearing, thus far, including many

1 issues that Environment Canada has already raised in our  
2 written submissions.

3                   However, the issues we have raised in  
4 these submissions are important, and do warrant  
5 additional attention this morning.

6                   Now, our most recent written submission is  
7 focused on the following areas:

8                   Air quality, specifically issues related  
9 to air emissions, resulting ambient air concentrations  
10 and the potential cumulative effects.

11                  Water quality, specifically issues related  
12 to surface water, groundwater and waste water management.  
13 The marine environment with a focus on contaminant  
14 modelling and ecological risk assessment and technologies  
15 including stabilization, solidification as well as  
16 capping.

17                  Malfunctioning and accident prevention,  
18 environmental effects monitoring and follow-up programs.

19                  In the interest of time and focusing in on  
20 what we perceive to be the most important aspects of our  
21 submission, we will devote the majority of our  
22 presentation to the following areas: Air quality, water  
23 quality and management and environmental effects  
24 monitoring and follow up.

25                  So, I'll start with air quality.

1                         During the review of the air quality and  
2                         emissions information provided to the EIS, Environment  
3                         Canada focused on three main areas, the management of  
4                         emissions, the resulting ambient concentrations and  
5                         cumulative effects of air pollutants and third the  
6                         proposed monitoring and follow-up actions that will take  
7                         place during the actual operation of the Project.

8                         Effective emissions management is required  
9                         to ensure the Project will be capable of meeting  
10                         regulatory requirements. Environment Canada recognizes  
11                         that at this stage of the Project design more detail is  
12                         required to fully demonstrate the ability of the Project  
13                         to meet regulatory requirements.

14                         Furthermore, additional information is  
15                         needed to clarify uncertainties with respect to the  
16                         Project details.

17                         For example, I understand that one  
18                         inconsistency that we've noted, Environment Canada,  
19                         whether there will be one incinerator or two.

20                         Now, that's been discussed over the past  
21                         few days of the hearings. And I'm referring to the  
22                         Response and Information Requests, specifically IR-41 in  
23                         Table 41-1.

24                         The clarification of the number of  
25                         incinerators to be used in this Project and then thru-put

is necessary to determine how the emissions could change.

2 It's the Department's recommendation that  
3 upon completion of the final project design, whether it  
4 includes one incinerator or two, the Proponent be  
5 required to demonstrate that the Project will be capable  
6 of meeting all emission requirements.

Now, with regard to ambient concentrations and cumulative effects of air pollutants, Environment Canada found that the modelling of these factors was done correctly; however, we do have some questions with respect to the data used to create these models, and I understand that the Proponent, in fact, has discussed this issue in the previous days.

For example, it appears that the precipitation data for Yarmouth were used, rather than those for Sydney. The precipitation levels for Sydney are greater than those in Yarmouth, and they have underestimated the amount of wet deposition predicted by the model.

20                            Additionally, the same surface roughness  
21 characteristics were not used for all of the models,  
22 which leads to questions on whether the appropriate  
23 roughness characteristics were selected for all of the  
24 cases.

25 Two different models, two different sets

1 of meteorological data were used in the EIS, yet no  
2 justification for these differences was provided, and  
3 finally limited information was provided on the actual  
4 specific emission rates.

5                   While it's not possible to estimate the  
6 significance of these issues without rerunning --  
7 actually rerunning the models, we do recognize that the  
8 models are inherently conservative and the fact that the  
9 majority of the emission rates entered into the model are  
10 also conservative, it's important to demonstrate, though  
11 the potential cumulative effects from this project in  
12 conjunction with other activities in the area. In its  
13 response to the Information Requests -- and these are IR-  
14 48 and IR-72, the Proponents suggested that there are no  
15 cumulative effects associated with this project or other  
16 activities in the area.

17                   However, Environment Canada is of the  
18 opinion that more information is required in order to  
19 support this statement. We've also identified some  
20 apparent information gaps in how the Proponent has  
21 estimated cumulative ambient air concentrations. It  
22 appears that the predicted concentrations in Tables IR-  
23 72-1 to IR-72.12 do not include emissions from the  
24 incinerator. And estimate of the total ambient  
25 concentrations, once the emissions of the proposed

1 activities are added to the pollutants currently present  
2 in the air shed is needed.

3 These calculations are essential to  
4 understand the cumulative effects of air quality. As  
5 well at this time it appears that only select pollutants  
6 have been assessed for cumulative effects. These include  
7 benzoate pyrene, total suspended particulate matter as  
8 well as naphthalene. Other air pollutants, such as  
9 PM2.5, this is particulate matter that's 2.5 microns in  
10 diameter and smaller, as well as PM10 which is 10  
11 microns. PCBs and dioxins and furans do not appear to  
12 have been considered in the cumulative effects  
13 assessment.

14 An estimate of the total expected ambient  
15 concentrations due to the combination of all project  
16 related emission sources as well as the existing  
17 pollutant levels in the local airshed is required. And  
18 these calculations are essential to the understanding of  
19 the cumulative effects on ambient air quality. This  
20 analysis may impact ecological and human health risk  
21 assessments and as such these assessments should be re-  
22 evaluated.

23 So I'll move on to some comments now on  
24 water quality. We also reviewed the EIS based on issues  
25 affecting water quality as a result of the project. The

1 Tar Ponds and Coke Oven sites have had an impact on water  
2 quality in the surrounding environment and the proposed  
3 project is designed to minimize or eliminate current and  
4 future potential effects of the contamination in three  
5 ways.

6 The first way is treatment and containment  
7 stabilization of the contaminants. The second is the  
8 isolation and the diversion of uncontaminated streams and  
9 lastly the interception and treatment of waters that  
10 remain contaminated.

11 It's Environment Canada's perspective that  
12 the interaction of surface water with groundwater is a  
13 key consideration in the overall approach to mitigating  
14 or eliminating the effects on ground and surface water at  
15 and around the sites. An extensive network of engineered  
16 controls is proposed and consists of configuration of  
17 vertical barrier walls, diversions, trenches, interceptor  
18 trenches, infiltration galleries, french drains, pump and  
19 treat systems and surface caps.

20 At this point the network of control  
21 structures has not been fully specified. The proposed  
22 construction of line channels to reroute the surface  
23 waters in the project area and the solidification  
24 stabilization of the Tar Ponds will also alter the  
25 current groundwater discharge patterns.

By design these features are intended to modify the flow patterns of the existing surface and groundwater systems within the remediation sites and thus have potential for alteration of the existing groundwater and surface water flow patterns in the surrounding environment. The proposed engineering activities identified in EIS focus on the shallow components of the local groundwater system.

Relatively little information is available on these lower bedrock units. Even though contaminants have been documented in the intermediate bedrock. Thus it's -- if the proposed control features along with the treatment of contaminated waters achieve their purpose, then these changes will be mostly positive. However, there is still some uncertainty as to how the groundwater and surface water contamination or movement is to be minimized or controlled.

A preliminary quantitative assessment of the proposed control measures would have been helpful in evaluating the project at this stage. Thus it's even more important that a proper monitoring network be implemented prior to construction so that the actual response of the groundwater system can be tracked and the project activities adjusted accordingly.

Now with respect to the generation of

1 waste water the anticipated types of waste water are not  
2 unique to this site. And Environment Canada acknowledges  
3 that technologies exist to treat these two acceptable  
4 levels. While there are information gaps, the Proponent  
5 has stated that the discharges will meet the requirements  
6 of the Fisheries Act -- for the Fisheries Act.  
7 Environment Canada is responsible for administering the  
8 pollution prevention provisions of this legislation. As  
9 such the department will be diligent in verifying  
10 compliance as the project proceeds.

11 In the EIS the Proponent indicates that  
12 during remediation there will be an increase in the flux  
13 of five times the current release volume and that  
14 following a remediation the contaminant flux will be  
15 reduced by up to an order of a magnitude -- reduced by an  
16 -- up to an order of magnitude of the current release  
17 rate.

18 We've heard during these hearings that  
19 these are assumptions used by the Proponent but the  
20 supporting rationale for these estimates have not yet  
21 been provided. While ecological risk assessments were  
22 conducted on the proposed land farming operation at the  
23 Coke Ovens site and the incinerator operation the  
24 proposed remediation work within the Tar Ponds was not  
25 carried forth in the ecological risk assessment, despite

1                   the fact that there is potential exposure to aquatic  
2                   organisms from these remediation activities.

3                   Since the remediation of the Tar Ponds is  
4                   a major component of the project and the EIS suggests  
5                   containment concentrations will exceed probable effects  
6                   levels, we believe that the ecological risk assessment  
7                   would have helped to identify potential impacts to the  
8                   marine receptors. The results of the ecological risk  
9                   assessment would inform the development of a marine  
10                  monitoring program.

11                  Environment Canada has made a series of  
12                  recommendations with respect to water management issues.  
13                  These include the development of a detailed groundwater  
14                  monitoring program and a fresh water aquatic monitoring  
15                  program associated with the anticipated airborne  
16                  emissions from the incinerator operation. In addition,  
17                  Environment Canada recommends that the Proponent conduct  
18                  a quantitative ecological risk assessment of appropriate  
19                  marine receptor organisms and commit to follow up  
20                  monitoring of the marine environment.

21                  We make this recommendation to lessen or  
22                  eliminate adverse effects of the remediation work on  
23                  marine habitats at the site and the living things within  
24                  them. For example, a real time monitoring program  
25                  measuring the flux contaminates from Muggah Creek would

1                   be useful. Given that Environment Canada has specialized  
2                   expertise in this area, the department would be pleased  
3                   to assist the development of the detailed monitoring  
4                   program along with other appropriate government agencies.

5                   It's also the department's recommendation  
6                   that a detailed groundwater monitoring program be  
7                   developed and implemented for the various project areas,  
8                   incorporating hydrogeological model results in the final  
9                   design of the groundwater and surface water control  
10                  measures and the monitoring network.

11                  Now, I've spoken quite a bit about  
12                  monitoring and I'll add some details on monitoring and  
13                  follow up. Monitoring and follow up programs are  
14                  essential components of the Environmental assessment  
15                  process. It is through these programs that the  
16                  predictions outlined in the EIS and the effectiveness of  
17                  the proposed mitigation measures are verified. More  
18                  importantly the information gained through these programs  
19                  can and actually should be used for management of  
20                  unacceptable and unexpected effects of the project.

21                  It's essential to understand that  
22                  monitoring programs are only the first step in follow up.  
23                  The information generated through monitoring programs  
24                  must be used to manage unanticipated issues that arise  
25                  during the course of the project. As a result there may

1           be need to take corrective action and make a commitment  
2           to continually enhance the project to ensure that  
3           regulatory and environmental criteria are being met.

4                         Throughout this presentation we've made  
5           numerous references to the need to monitoring and follow  
6           up programs, as I mentioned. These programs will be an  
7           essential part of the overall remediation project.

8                         Environment Canada recognizes the Proponents' commitment  
9           to work collaboratively with all appropriate stakeholders  
10           in the design and implementation of these programs should  
11           the project be approved and proceed.

12                         Environment Canada looks forward to  
13           actively participating in the development and  
14           implementation of the monitoring and follow up programs.  
15                         And we do recommend a formal mechanism be put in place to  
16           enable the appropriate stakeholders to participate in the  
17           design and the implementation of these monitoring  
18           programs.

19                         Now we're going to present some additional  
20           information. The first information, the panel has asked  
21           us in Environment Canada for information pertaining to  
22           the Stockholm Convention on persistent organic  
23           pollutants. The toxic substances management policy as  
24           well as the federal mobile PCB treatment and destruction  
25           regulations. So I'll give some details of those three

1 specific policies and regulations.

2 Now with respect to the Stockholm  
3 Convention, actually this weeks as it turns out, the  
4 Conference of Parties is meeting in Geneva. And as a  
5 result, both the departmental specialists are really not  
6 available to speak directly on this issue. Nevertheless,  
7 we are able, in general terms, to speak on the  
8 convention. And I'd like to offer the panel my assurance  
9 that we'll answer any questions pertaining to the details  
10 of the convention as the best of our abilities but  
11 notwithstanding that most of the experts are away in  
12 Geneva this week. And we will get back to you if there's  
13 some detailed specific questions that we're unable to  
14 answer.

15 Now the Stockholm Convention is a global  
16 agreement that came into effect in May of 2004 with the  
17 objective of protecting human health and the environment  
18 from persistent organic pollutants. Now Canada is a  
19 party to the Stockholm Convention. And as a result, we  
20 have an obligation to develop and implement a National  
21 Implementation Plan outlining current and projected  
22 initiatives to meet the requirements of the Convention.

23 These initiatives include legislation,  
24 regulations, voluntary programs, standards, policies,  
25 programs and other related measures including actions by

1                   Canadians to manage and/or eliminate persistent organic  
2                   pollutants in the environment. Now Article 5 of the  
3                   Convention stipulates that the National Implementation  
4                   Plan include a National Action Plan for reducing  
5                   unintentionally produced persistent organic pollutants,  
6                   including dioxins and furans, HCB and PCBs.

7                   Under Article 7 of the Convention each  
8                   party must complete and send it's National Implementation  
9                   Plan to the Conference of the Parties within two years.  
10                  And for Canada, the deadline for submitting our National  
11                  Implementation Plan will be this month. In fact, it's  
12                  May 17th in 2006. Canada will also be conducting  
13                  periodic reviews and updates of our National  
14                  Implementation Plan in accordance with the schedules to  
15                  be determined by the Conference of Parties.

16                  Now a few words on the Toxic Substances  
17                  Management Policy. This policy was created with two  
18                  objectives. The first goal is the virtual elimination of  
19                  toxic substances from the environment that result  
20                  predominantly from human activity and as well that are  
21                  persistent and biocumulative. An example of these kinds  
22                  of substances would be PCBs.

23                  Now we refer to these commonly as track 1  
24                  or level 1 substances. Now the second goal of the  
25                  management of other toxic substances -- we have a second

1 goal and it's the management of other toxic substances  
2 and substances of concern throughout their entire life  
3 cycles to prevent or minimize the release into the  
4 environment. Now example of these type of substances  
5 would be PAHs, poly aromatic hydrocarbons. These now, we  
6 refer to them as track 2 or level 2 substances. And  
7 these do have potentially harmful effects on the  
8 environment.

9 Now under the Toxic Substances Management  
10 Policy, remediation may be used to address track 1  
11 substances like PCBs when they already exist in the  
12 environment. The policy also allows for a cost benefit  
13 analysis to identify the appropriate course of action,  
14 management strategies focusing on minimizing the exposure  
15 and the site's potential risks are permitted to be  
16 implemented.

17 And, finally, the federal Mobile PCB  
18 Treatment and Destruction Regulations, these apply to  
19 mobile systems for the treatment and description of  
20 chlorobiphenols that are operated on federal lands or  
21 operated by, or under contract with, federal  
22 institutions.

23 The operation of incineration systems on  
24 federal lands requires ministerial authorization and must  
25 specify PCB release limits, operating standards and

1 emission testing methods.

2                   These regulations were enacted in 1990 and  
3 with the development of the Canada-wide standards for  
4 emissions of dioxins, furans and mercury are no longer  
5 current. It is intended that these regulations will be  
6 amended in the near future.

7                   Now, I understand that there were some  
8 questions raised over the last few days with regards to  
9 the Canadian Council of Ministers of the Environment  
10 Guidelines, the so-called CCME Guidelines, so I'd like to  
11 take this opportunity to share some information and  
12 perhaps some insight into the use of these guidelines.

13                  The CCME National Guidelines for Hazardous  
14 Waste Incineration were developed in 1992 and the  
15 guidelines for mobile PCB destruction systems were  
16 developed in 1990. In fact, our current Mobile PCB  
17 Treatment and Destruction Regulations which came into  
18 force in 1990 contain the same emissions criteria as  
19 these 1990 or 1992 guidelines.

20                  However, the department is in the process  
21 of revising our regulations and these will be completed  
22 in the very near future as we recognize that they're no  
23 longer current.

24                  Now, since the early 1990s the Canada-wide  
25 standards were developed -- I think they were developed

1           in 2001 -- and these outline more stringent acceptable  
2           emissions criteria for dioxins, furans and mercury from  
3           incineration systems. We do recognize, however, there  
4           are other elements in those CCME Guidelines that may be  
5           helpful to inform this process, and that's why we  
6           referenced them in our submissions.

7                         For example, Environment Canada believes  
8           that the guidance on ash residue disposal, handling and  
9           storage procedures for waste, spill handling procedures  
10          and common components included within operating permits  
11          in the CCME Guidelines may actually be relevant for this  
12          project.

13                         With regards to the CCME Guidelines  
14          respecting the 1,500-metre separation distance between an  
15          incinerator and public buildings, this criterion was  
16          established to provide general guidance. However, there  
17          are other methodologies that are equally as conservative  
18          but that also take into consideration the unique  
19          characteristics of specific sites like this one, for  
20          example.

21                         For example, the air emission and  
22          dispersion modelling, in concert with a human health risk  
23          assessment, are also appropriate methodologies to  
24          determine the need for, and the extent of, a separation  
25          distance between the proposed incinerator and public

1 buildings.

2                   This is consistent with other CCME  
3 Guidelines that identify generic criteria while also  
4 endorsing the development of site-specific recommendation  
5 objectives to account for the unique characteristics of  
6 an individual site.

7                   Now, it's also important to note that  
8 these CCME Guideline documents are no longer on the  
9 active publication list, in fact, of the CCME Secretariat  
10 and, in fact, they're not even -- they're no longer even  
11 available for distribution.

12                  Now, as a result of all these factors,  
13 Environment Canada accepts the continued use of these  
14 documents for general guidance but endorses the use of  
15 site-specific details in the development of remediation  
16 plans. We believe the inclusion of these details will  
17 culminate in the development of a tailored approach to  
18 the development of remediation plans.

19                  Now, in a related area I thought it would  
20 be helpful to provide the Panel with some additional  
21 information regarding the regulatory contexts associated  
22 with the project. More specifically, I'd like to provide  
23 some clarification with respect to Environment Canada's  
24 role within this framework.

25                  First, as I mentioned earlier, Environment

1           Canada administers Section 36, paragraph 3, of the  
2           Fisheries Act. This section prohibits the deposition of  
3           deleterious substances into waters frequented by fish.  
4           This is often referred to as the General Pollution  
5           Prevention Provisions of the Fisheries Act.

6                 In general terms, the deposit of any  
7           material, such as waste water or solids, generated as a  
8           result of the project activities would be required to  
9           meet the Act. Compliance monitoring, which is done to  
10          ensure that the project meets the requirements of the  
11          Fisheries Act, includes testing for acute lethality and  
12          sub-lethal or chronic effects.

13               With respect to the application of the  
14          federal Mobile PCB Treatment and Destruction Regulations,  
15          these regulations apply to the proposed location of the  
16          incinerator, as it currently resides on federal land.

17               As a result, Environment Canada has  
18          premised its review of the EIS on the assumption that  
19          those regulations will apply. However, once Environment  
20          Canada has been advised that the ownership of the land  
21          has been transferred to the province, federal Mobile PCB  
22          Treatment and Destruction Regulations would not apply and  
23          the operation of the incineration system would fall under  
24          provincial jurisdiction.

25               So, I hope some of this background

1 information on some of the regulatory contexts and some  
2 of our policy and regulations has been useful.

3 I'm going to make some comments on broad  
4 summary recommendations. At this time there are a number  
5 of outstanding information gaps with respect to several  
6 components of the project, the specifics which have been  
7 outlined in our written submission.

8 Environment Canada is of the opinion that  
9 these issues can be addressed as the design process  
10 unfolds, provided that the Proponent commits to the  
11 recommendations outlined in the department's submission.

12 Specifically to that, the Proponent must  
13 commit to conduct a further analysis to confirm  
14 predictions when more design details are available, to  
15 develop and implement detailed monitoring plans, to  
16 establish appropriate follow-up and mitigation  
17 strategies, and, as well, to engage Environment Canada  
18 and other appropriate stakeholders in the development and  
19 implementation of these programs.

20 This additional information and further  
21 analysis must be provided to the satisfaction of the  
22 appropriate government departments prior to the issuance  
23 of regulatory approvals and authorizations and,  
24 therefore, prior to the construction of the project.

25 Environment Canada believes that the

1 issues identified in the department's review can be  
2 addressed provided the Proponent commits to the  
3 recommendations outlined in our written submission.

4 So, finally, I'd like to provide the Panel  
5 with my personal commitment on behalf of Environment  
6 Canada to continue working with you, with the Proponent  
7 and with the people of Cape Breton to develop an  
8 appropriate remediation strategy that may move forward  
9 without adverse environmental effects.

10 Environment Canada will be diligent in  
11 enforcing its applicable regulations. To that end, an  
12 enforcement officer position here in Cape Breton has been  
13 staffed and will be fully functional by early July of  
14 this year.

15 Once again, I'd like to thank the Panel  
16 for your attention, and we would be pleased to answer any  
17 questions that you may have. Thank you once again.

18 THE CHAIRPERSON: Mr. Abraham, thank you  
19 very much for your presentation. We appreciate receiving  
20 your presentation ahead of time and the clarity of the  
21 way it was organized, and you have, in fact, answered at  
22 least some of the questions that we were prepared to ask  
23 you but I'm sure we've got plenty more.

24 ENVIRONMENT CANADA AND GOVERNMENT SERVICES AGENCY  
25 --- QUESTIONED BY THE JOINT REVIEW PANEL

1                           THE CHAIRPERSON: I think I would like to  
2 start with a very general question and I will use for the  
3 example the comments that you made with respect to the  
4 control of ground water and surface water.

5                           I think in the way you phrased that you  
6 let me infer -- and then you can correct me if that's  
7 incorrect -- that you're suggesting that it's a fairly  
8 complex undertaking that the Proponent is making to  
9 control both surface and ground water flows.

10                          Now, you've said that there's not as much  
11 information as you would like in the EIS. You have then  
12 gone on to say that that's unfortunate but what you  
13 really recommend is they come up with a good monitoring  
14 plan.

15                          I appreciate the fact that from your  
16 regulatory position the regulatory involvement that you  
17 have, in a way that's what triggers your ability to take  
18 action, is monitoring the monitoring results, so it's  
19 kind of something goes wrong and you're there.

20                          From our perspective as a Review Panel  
21 that's trying to make some sense of the proposed  
22 remediation and to make some meaningful recommendations,  
23 we're I guess equally, if not more, interested in the  
24 front-end and avoiding anything -- and I'm sure you are  
25 too -- requiring you to take action under Section 36 of

1 the Fisheries Act.

2                   Therefore, I am -- are you -- let's take  
3 the ground water and surface water. Do you have anything  
4 more to add in terms of -- I think we need some help, you  
5 know, in terms of assessing do we have enough information  
6 here.

7                   You don't have a guaranteed involvement,  
8 there's no sort of regulatory step in which you will be  
9 required to approve more detailed information on that  
10 system. Is that correct?

11                  MR. ABRAHAM: Not with respect, if I  
12 understand correctly, to the design, but we've brought  
13 Greg here as a hydrogeologist to provide some expert  
14 advice. You're right, it's very complex, the  
15 hydrogeology and the water flow systems being proposed  
16 are very complex.

17                  I'm just wondering if Greg has any  
18 comments with respect to further information that might  
19 be needed or ---

20                  MR. BICKERTON: I think I can provide some  
21 further comment if you'd like. Conceptually, the way  
22 it's laid out, I have no difficulty with it at all, and  
23 the reason for suggesting the monitoring is just for  
24 verification that it will perform as suggested.

25                  And as Jim had mentioned, ideally it would

1                   be nice to have more detail, but I do understand at this  
2                   stage that some of that information is not available, but  
3                   conceptually it's rather straightforward in terms of the  
4                   ground water at least.

5                   I can't speak to the surface water  
6                   aspects, but in terms of the ground water conceptually  
7                   what they're proposing is a really straightforward  
8                   concept.

9                   THE CHAIRPERSON: And you have experience  
10                  of seeing similar systems work in other remediation  
11                  cases?

12                  MR. BICKERTON: Certainly nothing of that  
13                  scale. On a much smaller scale in terms of collection  
14                  trenches, I have some experience, not with diversion  
15                  walls and things, but the concept is -- it's just a  
16                  barrier to flow, so that in itself isn't causing me --  
17                  the concept is fairly straightforward. So, hopefully  
18                  that answers your question.

19                  THE CHAIRPERSON: Well ---

20                  MR. ABRAHAM: But as you mentioned, I  
21                  guess one area that -- where we do have jurisdiction on  
22                  the Fisheries Act is the waste water, and so we will need  
23                  more detail on the plans in order for us to be  
24                  comfortable with the waste water aspects so that we're in  
25                  a position to regulate and exercise our authority.

THE CHAIRPERSON: And is it fairly common practice that you work with your provincial counterparts? Do they consult with you on matters like this? Would you expect as a matter of course that you will, in fact, end up reviewing more detailed specifications and providing advice?

7 MR. ABRAHAM: Well, one thing we at  
8 Environment Canada -- we recognize that we do have  
9 scientific and monitoring expertise and one of our roles  
10 within the federal government is to make that expertise  
11 available to provincial governments, certainly for  
12 important projects like this.

13 So, regardless of our regulatory authority  
14 -- or responsibilities, our responsibilities from a  
15 federal government point of view with the science and  
16 monitoring infrastructure is to provide advice,  
17 especially to our provincial colleagues and especially on  
18 an important project like this.

19 So, we do make that expertise available  
20 and we do encourage the Provincial Governments to ask for  
21 advice of the experts that we have, and in many cases the  
22 Provincial Governments do not.

23 THE CHAIRPERSON: So when panels make  
24 recommendations to that effect, it might be helpful.

25 MR. ABRAHAM: I would suspect so.

1                           THE CHAIRPERSON: My second fairly general  
2 question, and it kind of relates, I think, is, I'm  
3 looking at your written submission, the most recent one,  
4 of your presentation. And in your first recommendation  
5 you say that:

6                           "It is recommended that the  
7 proponent, upon completion of the  
8 final project design be required to  
9 demonstrate that the project will be  
10 capable of meeting all emission  
11 requirements."

12                          And then you go on to say:

13                          "This will include documentation of  
14 the successful operation of the  
15 specific technology at other sites  
16 similar to the Tar Ponds."

17                          Now, was this recommendation made -- it's  
18 under "Air" so it's only made with respect to the  
19 incinerator, not to any other aspects.

20                          MR. ABRAHAM: Yes, that's, in fact,  
21 correct. It's with respect to the incinerator itself and  
22 with respect to the air aspect.

23                          THE CHAIRPERSON: The panel asked a less  
24 precise question, I guess, but we certainly asked a  
25 related question in one of our Information Requests with

1 respect to information on other hazardous waste  
2 incineration projects. You've had a chance to review the  
3 reply to that?

4 MR. HINGSTON: Yes, we have, and I think  
5 one of the weaknesses might have come, as you said, from  
6 the less precise question.

7 We did get a fair bit of demonstration on  
8 requirements for other incinerators. What we didn't get  
9 was a lot of information saying "Well, do those  
10 incinerators indeed actually meet those limits or what  
11 limits did the incinerators actually meet." So I think  
12 we're sort of looking for the demonstrated "This is  
13 what's measured coming out of a stack of an operating  
14 incinerator."

15 THE CHAIRPERSON: And is that information  
16 generally readily available?

17 MR. HINGSTON: It often is. Quite often  
18 information in many jurisdictions, including Nova Scotia  
19 where we don't have other operating incinerators, in  
20 terms of what's required in approval and the monitoring  
21 thereof, is often available through other jurisdiction --  
22 through the jurisdiction part of the approval process.

23 THE CHAIRPERSON: And does Environment  
24 Canada have a database of that information for  
25 incinerators that have been operating in Canada?

1 MR. HINGSTON: We would have some  
2 information through our national pollutant release  
3 information system on some emissions. We probably don't  
4 have our own sort of general database that would cover  
5 everything.

6 THE CHAIRPERSON: But I would assume you'd  
7 have information on anything that received approvals on  
8 mobile PCB incinerator regulations.

9 MR. HINGSTON: We'd have anything, yes,  
10 that was in the federal jurisdiction.

MS. DOBER: My understanding is that there have probably been a maximum of two or three incinerators that would have received authorizations under the federal regulations, and the last ones probably would have been Goose Bay and a proposed facility for Sarawak, which I'm not sure if that one ever actually did get off the ground.

22 THE CHAIRPERSON: So if it was two or  
23 three, you've named two, there's a third one? Or do you  
24 think it's two?

25 MS. DOBER: I'm not entirely sure, and we

1                   would have to go back and check our records for that, and  
2                   we would commit to doing that.

3                   THE CHAIRPERSON: Okay. Well, we'll take  
4                   that as an undertaking to provide information.[u]

5                   Actually, perhaps before we wrap that  
6                   undertaking up, we were asking questions earlier about  
7                   the operation at the Goose Bay incinerator which we knew  
8                   about. Do you have any comments on that in terms -- that  
9                   might be enlightening in terms of the success of that  
10                  demonstration of that technology in Goose Bay?

11                  MS. DOBER: Certainly we had inspectors on  
12                  the ground and they monitored on a daily basis that  
13                  operation. My understanding is that we would have  
14                  considered the operation to be successful in that the  
15                  amount of waste was destroyed and they operated in  
16                  compliance with their permit.

17                  THE CHAIRPERSON: Now, we've asked the  
18                  proponent, I believe, to provide us with some of that  
19                  information. What might you be able to provide us with  
20                  in terms of actual written reports?

21                  MS. DOBER: We would have a file on the  
22                  project, and I'm not sure what -- the level of detail it  
23                  contains, but I would suspect that it contains things  
24                  like inspection reports and whatnot.

25                  MR. CHARLES: Would you have information

1 indicating how well the incinerator worked in terms of  
2 how often it broke down or how often there were  
3 exceedances of the emission levels?

4 MS. DOBER: That I'm not entirely sure of.  
5 We will go back into our records and check, and the  
6 information that we do have available we will make  
7 available to the panel.

8 MR. CHARLES: And would that information  
9 also include the type or the manufacturer of the  
10 incinerator, because I guess ---

11 MS. DOBER: Yes.

12 MR. CHARLES: --- that would be useful, as  
13 well. Thanks.

14 THE CHAIRPERSON: Well, then, for the  
15 record, I will take that as a formal undertaking that --  
16 I realize we're asking for the same information from two  
17 different sources, and you might wish to confer with the  
18 agency, but what obviously the panel wants is the fullest  
19 amount of information we can. So whoever can do the best  
20 job, please -- and we'll excuse the other party.

21 Can I ask, because this has been asked on  
22 a number of occasions, what is a mobile incinerator?

23 MS. DOBER: In our regulation, a mobile  
24 incinerator is described as something that's really not  
25 quite descriptive, but let me give you the exact words.

1       Here in our federal regulations it means "a mobile  
2       equipment that is capable of destroying PCBs by thermal  
3       means."

4                     THE CHAIRPERSON: Well, I take it that --  
5       that does require interpretation in every case, so can I  
6       take it that the proposal that's before us, were it to be  
7       regulated by you, were it to be on federal lands, you  
8       would definitely regulate that as a mobile incinerator?

9                     MS. DOBER: Yes.

10                  THE CHAIRPERSON: And I don't know how far  
11       to take this, given that the proposal is that the  
12       incinerator not be sited on federal lands, but the lands  
13       are federal right now, so you've said that the  
14       regulations are out of date, and are being -- did you say  
15       that?

16                  MS. DOBER: Yes.

17                  THE CHAIRPERSON: Yes. You looked up  
18       suddenly and I thought "My goodness, I got that wrong."  
19       So you said they're out of date, and that they've been  
20       revised. So were the project to continue with  
21       incineration located on federal lands, is it your  
22       understanding that it would be that the new regulations  
23       would be ready?

24                  MR. ABRAHAM: I expect that the new  
25       regulations would be ready. My understanding, though, is

1                   that the standards the EIS has done were the Canada-wide  
2                   standards, which are pretty consistent with what the new  
3                   regulations will be.

4                   THE CHAIRPERSON: I think I will now give  
5                   my colleagues a chance.

6                   DR. LAPIERRE: Good morning, and thank you  
7                   for your presentation.

8                   I'd have a few questions in relations to  
9                   the monolith. I guess I'd like to have your views on  
10                  what the function of the -- how do you see the function  
11                  of the monolith, that's that big block of cement that --  
12                  in the stabilization and ---

13                  MS. DOBER: I'm not sure that I really  
14                  understand the intent of the question.

15                  DR. LAPIERRE: Do you see the monolith as  
16                  having a function of stabilizing the chemicals in place,  
17                  or do you see it as a platform on which you can develop  
18                  the land later on, and it would have a meaning -- you  
19                  know, a less important factor in containing the chemicals  
20                  or the pollutants in place.

21                  MS. DOBER: I think we heard the proponent  
22                  say earlier this week that the primary purpose for the  
23                  solidification and the stabilization was really the  
24                  solidification part of the equation, a need to build some  
25                  strength to support the cap and any intended future use

1 of the site.

2                   Their suggestion was that the contaminants  
3 that are already there are not moving, and from my  
4 perspective, the stabilization component just enhances  
5 that. So I see it being an incremental benefit because  
6 of the fact that, for the most part, the contaminants do  
7 not migrate.

8                   DR. LAPIERRE: So you -- I just want to --  
9 according to your understanding is, the stabilization is  
10 not an essential component of containing the chemicals --  
11 the pollutants within the Tar Ponds.

12                  MS. DOBER: It's an additional benefit  
13 that comes from the solidification and stabilization  
14 procedure.

15                  DR. LAPIERRE: Okay. The second question  
16 I have relates to the -- I wonder if you could explain  
17 the BACT, the best available control technology, and the  
18 MACT, the maximum acceptable or achievable control  
19 technology in relations to the Canada-wide standard.

20                  MR. HINGSTON: I probably have to go back  
21 to get some very specific information.

22                  Both the term the best available control  
23 technology and the maximum achievable control technology  
24 actually come out of US EPA procedures, and again they  
25 are based on the acceptable level of control technology

1 and would be based on the existing, I guess, air quality  
2 in areas.

3 So if you have an area that actually  
4 already has good air quality, the best available control  
5 technology is what one would use.

6 If you have an area that actually has poor  
7 air quality, and again that's all specifically defined as  
8 the level of air quality, then you would actually have to  
9 go to a different level of control technology.

10 If you do wish, I can find the specific  
11 reference to that, to the US EPA, if you'd like.

12 DR. LAPIERRE: No, I guess that's okay for  
13 the moment. I may have a question later on on this,  
14 particularly as it relates to stale air that might stay  
15 in an area over some time.

16 The other question I have relates to  
17 mercury. Are you in agreement with the proponent that  
18 the mercury criteria developed through the risk  
19 assessment is the appropriate emission limits for this  
20 project?

21 MR. HINGSTON: The development of the  
22 emissional limit was actually based on the Human Health  
23 Risk Assessment, and sort of, I guess, we'll it take as  
24 far as the environment. Once it gets into the emissions  
25 based on the human health, that one will have to be

1                   passed over to the health specialists.

2                   DR. LAPIERRE: Okay. Well then, are you  
3                   reasonably confident that the mercury criterion can be  
4                   met and monitored? I think you know what the 1.1 ---

5                   MR. HINGSTON: Yeah, I mean, our experts,  
6                   they have looked at it. They do believe it's achievable.  
7                   It's not easily achievable, but it is technically  
8                   achievable, and yes, it can be monitored, as discussed  
9                   previously.

10                  Mercury's very difficult at these levels  
11                  to monitor in real time but can definitely be monitored  
12                  during stack testing where you're actually collecting gas  
13                  from the stack and analyzing it sort of in a laboratory  
14                  off site. Can be done that way.

15                  DR. LAPIERRE: Okay. And I guess another  
16                  question that I would have relates to the deposition at  
17                  sea of contaminants. What process kicks in the process  
18                  for disposal-at-sea permit?

19                  MS. DOBER: I'm going to ask you to maybe  
20                  paraphrase your question so that we can actually  
21                  understand.

22                  DR. LAPIERRE: Well, does the fact that  
23                  the land is owned by the federal government implicate  
24                  that you would have to look at it for disposal at sea if  
25                  anything was disposed.

1                   MS. DOBER: Are you talking about the  
2 deposition of materials that comes from the stack?

3                   DR. LAPIERRE: No. From the materials  
4 that -- for example, yesterday we got an answer to a  
5 question that the federal government owned the land  
6 within the Tar Ponds.

7                   Does simply owning the lands within the  
8 Tar Ponds initiate a deposition of materials -- disposal  
9 at sea of the materials?

10                  MS. DOBER: So, you are talking about the  
11 excavation and testing of contaminated sediments.

12                  DR. LAPIERRE: Yes, yes.

13                  MS. DOBER: The regulations do not place a  
14 restriction on who owns the property, so regardless of  
15 whether the land is federal or not, if there was a  
16 requirement for an Ocean Disposal Permit, that would come  
17 through to Environment Canada for approval.

18                  DR. LAPIERRE: I guess another question  
19 that I have is -- that will be my final question for now  
20 -- is do you have any concerns with the exchange of water  
21 from the site with the harbour and possibly the flow of  
22 contaminants in the harbour from the site, either  
23 presently or once it's capped?

24                  MR. ERNST: Yes, we've reviewed the  
25 information in the EIS, and we have some unanswered

1           questions with regard to that, and one of them being the  
2           estimated increase in flux of contaminants to the harbour  
3           that have been estimated there.

4                         So, to address some of these  
5           uncertainties, we would like to have a higher level risk  
6           assessment done in the harbour, so that we can get a  
7           better handle on what we think is going to happen there.  
8           Additionally to develop a monitoring program that could  
9           be more focused by identifying critical components in  
10          areas.

11                        So, we do have a concern for that and we  
12          would like to see additional work done there in order to  
13          satisfy some of the uncertainties that we think currently  
14          exist.

15                        DR. LAPIERRE: If I understand correctly,  
16          you would like to see the modelling work undertaken prior  
17          to the establishment of the monitoring parameters or  
18          program.

19                        MR. ERNST: We'd like to see an additional  
20          risk assessment done, a more quantitative risk assessment  
21          done for the increase in contamination of the harbour.

22                        Whether that involves additional modelling  
23          or not is probably a decision of how the risk assessment  
24          is being approached.

25                        In our opinion this is not a large task at

1                   this point. It's probably something that can be done  
2                   with available information.

3                   There's a lot of information around,  
4                   probably within a few or several months' worth of work.  
5                   So, it's not a tremendous task to do this, we believe, at  
6                   this point. And that risk assessment then would serve to  
7                   really focus the monitoring strategy that we would like  
8                   to see in place subsequently.

9                   DR. LAPIERRE: Okay. Thank you.

10                  THE CHAIRPERSON: I'm just going to leap  
11                  in before Mr. Charles gets his chance.

12                  Just for clarification here, this  
13                  discussion about the Disposal at Sea Permit -- I mean the  
14                  reference is the first page of your presentation. This  
15                  is what brings this to our attention, and it says:

16                  "In addition, it is possible that a  
17                  Disposal at Sea Permit, Part 7, CEPA,  
18                  may be requested for the disposal of  
19                  material."

20                  Do you mean in the active tense that it is  
21                  possible that Environment Canada may request a Disposal  
22                  at Sea Permit, or who's requests?

23                  MS. DOBER: No, the Proponent or their  
24                  contractor would request the permit and Environment  
25                  Canada issues the permit.

1                           If I could clarify, my intent was --  
2                           my intent was to say that the regulations are not only  
3                           applicable to federal lands, they would apply to whoever  
4                           was proposing to do the work.

5 THE CHAIRPERSON: Under what circumstances  
6 would the Proponent need to request this permit though?

7 MS. DOBER: They generally need to request  
8 a permit when there is some movement and disposal of  
9 sediments.

10 We would require some further details on  
11 the design of the program and the construction  
12 methodologies, before we knew if a Disposal at Sea Permit  
13 would be required.

14 THE CHAIRPERSON: So, you can't tell from  
15 what's already been presented in the EIS in terms of  
16 their -- I mean, what's the likelihood from what they  
17 presented in terms of how they are going to be moving  
18 sediments in North and South Ponds.

19 MS. DOBER: I'm willing to speculate on  
20 the likelihood, but we do need some further design  
21 details, before we can make a determination.

22 THE CHAIRPERSON: Thank you.

23 MR. CHARLES: I have a question regarding  
24 one of your recommendations.

25 It's the recommendation on page 5, which

1 reads:

2                   "That it is recommended that the  
3                   Proponent upon completion of the  
4                   final Project design be required to  
5                   demonstrate that the Project will be  
6                   capable of meeting all emission  
7                   requirements, and this would include  
8                   documentation of the successful  
9                   operation of the specific technology  
10                  at other sites similar to the Tar  
11                  Ponds."

12                  And then you've already discussed the --  
13                  one or two incinerators.

14                  My question is, to whom is this  
15                  demonstration supposed to be made? Is it to Environment  
16                  Canada, is it to the Province, is it to the independent  
17                  engineer, or is it to all three?

18                  MR. HINGSTON: At this time, I guess we  
19                  are somewhat in a little bit of limbo with being in a  
20                  process where some of the design details will come later  
21                  on in the process, which maybe at that time, you know,  
22                  possibly -- you know, the approval process is developed  
23                  solely by the Province.

24                  We do feel, I think, that there is value  
25                  in having a broader set of stakeholders to actually look

1 at that.

2 So, I know we would like to have the  
3 opportunity to look at it ourself and possibly, I think,  
4 at the discretion of Panel, even in an recommendation, to  
5 identify other interested parties that should be able to  
6 look at that.

7 MR. CHARLES: And a second question  
8 relating to the same recommendation, the reference to  
9 documentation of the successful operation of specific  
10 technology at other sites.

11 Now, you're not just referring to  
12 incineration there, I don't think. I think you're  
13 talking about the technology used in the Project as a  
14 whole, which would include stabilization and  
15 solidification.

16 And my question is this, we were supplied  
17 by the Proponent with material relating to other sites  
18 where a solidification and stabilization technique had  
19 been used. Now, that's in IR -- I think it's 42.

20 And I just wondered, were you satisfied  
21 when you looked at that material that you had sufficient  
22 information to allow you to make an assessment of how  
23 successful this process was?

24 MR. HINGSTON: The majority of the  
25 emissions is dealing more with the incinerator.

1                   MR. CHARLES: I see.

2                   MR. HINGSTON: We were fairly comfortable  
3                   in the emission estimates from remediation, which is  
4                   mostly the digging in that part of the land.

5                   The one possible area that was raised is  
6                   during the solidification process the Proponent had  
7                   stated that there would be an exothermic reaction,  
8                   increases temperature, likely increases the emissions of  
9                   volatiles, and again they did provide us with an estimate  
10                  of what that temperature would be or would likely be.

11                  And again I think once that design  
12                  estimate is done, if we can sort of -- get a better sense  
13                  to say that -- I believe they said 50 degrees in the EIS,  
14                  if I remember correctly -- but a better sense of whether  
15                  that number is actually conservative -- will be the  
16                  number that you will reach, and then you'd get a good  
17                  sense of what those emissions would be.

18                  MR. CHARLES: Did you have any concerns  
19                  about saltwater intrusion under the matrix?

20                  MR. HINGSTON: Not from an air emissions  
21                  standpoint.

22                  MR. CHARLES: But from any other  
23                  standpoint.

24                  MS. DOBER: I'm not aware that there have  
25                  been any studies which have documented difficulties with

1 respect to saltwater intrusion.

2                   That's probably the best I can give you  
3 right now.

4                   MR. CHARLES: The reason I raise it is,  
5 it's been raised at these hearings that there is a  
6 possibility -- and I think my colleague Dr. LaPierre has  
7 some concerns about saltwater interaction with the matrix  
8 and -- at a lower level and what it might do to the  
9 matrix, and what would result from that.

10                  I just wondered if Environment Canada had  
11 noted that or it was a concern of yours.

12                  But I guess the answer is "no," because  
13 you haven't really talked about it very much.

14                  MS. DOBER: Well, if we're looking at it  
15 from a contaminant movement point of view in terms of the  
16 deterioration of the matrix, as we've already indicated  
17 the stabilization process is an added benefit to the  
18 solidification, because the contaminants are not moving  
19 appreciably at this point in time.

20                  So, I'm not sure that having some  
21 deterioration in the matrix will cause any contaminant  
22 movement.

23                  MR. CHARLES: All right. Then a question  
24 about the cap. Is it your understanding that the cap is  
25 designed to perform more than one function?

1                   MR. ABRAHAM: More than one function with  
2 respect to -- the main function being capping the  
3 contaminants but ---

4                   MR. CHARLES: Well, I mean I think we've  
5 heard and I've read in the EIS that, at least initially  
6 in the EIS, the cap was referred to as necessary in order  
7 to prevent a certain amount of moisture coming in from  
8 outside and then there's a concern about moisture coming  
9 in from the bottom.

10                  MR. ABRAHAM: Exactly.

11                  MR. CHARLES: And we've heard from the  
12 Proponent about how they're -- this is the Tar Ponds now  
13 ---

14                  MR. ABRAHAM: Yes.

15                  MR. CHARLES: --- how they're providing  
16 for a series of trenches that will help to try and take  
17 care of the liquids or anything coming up -- groundwater  
18 coming up from down below.

19                  And I'm still trying to get a clear idea  
20 myself, you know, if a cap is supposed to do two things.  
21 And I guess this is before the trench remedy was brought  
22 in I had a vision of the cap trying to prevent stuff from  
23 coming in from the top and it allowing stuff to go up  
24 from the bottom. But I assume that if the trench system  
25 works then anything coming up from the bottom won't have

1 to go up through the rest of the cap, then all will be  
2 well.

3 MR. BICKERTON: With regard to the  
4 groundwater aspect that's correct. If the draining  
5 system that they're proposing is intended to divert the  
6 groundwater away from that cap. And I believe, if I  
7 recall correctly, there is a geosynthetic membrane of  
8 some sort on top of that, too to restrict the movement of  
9 groundwater up to interact with the cap.

10 MR. CHARLES: And I realize you have to be  
11 careful when you're talking about the cap because it  
12 consists of several different layers but initially the  
13 EIS sort of talked about the cap as performing the  
14 function of allowing mechanical devices to go over the  
15 top or I may be wrong, maybe that was the stabilization  
16 or the solidification aspect of it. And that the cap has  
17 nothing to do with that. I'm just wondering if you had a  
18 clear idea of whether the cap performs one function and  
19 that is to keep any contaminants away from the receptors  
20 who might come onto the land. Is that your  
21 understanding?

22 MR. BICKERTON: That's my understanding,  
23 yes.

24 MR. CHARLES: Okay. The -- my colleague,  
25 Madam Chair has discussed the disposal at sea regulations

1 and when that might come into effect. And I think -- I'm  
2 downgrading him today from Doctor to just Mr. Shosky --  
3 indicated that there would be some side-casting going on  
4 during the whole process and I've had further explanation  
5 of side-casting in the context of the Tar Ponds operation  
6 which means that at some point the material in the ponds  
7 will be thrown up on dry land and at some point into  
8 other areas of the Tar Ponds. And you can yes or no if  
9 that's not true.

10                   But side-casting is one of the aspects --  
11 and I'm wondering if the -- if this provision for  
12 disposal of goods or contaminants at sea has anything to  
13 do with side-casting in the sense of taking material from  
14 one part of the ponds and putting it into another, you  
15 know just for temporary purposes while you work? Or is  
16 it all going onto the land? I'd like to get a clear idea  
17 of that if I may.

18                   MR. SHOSKY: I'll just take a minute if  
19 that's okay.

20                   THE CHAIRPERSON: I was -- yes, I think it  
21 would be helpful before you ask your question to the  
22 Presenters if the Proponent would just clarify what it is  
23 that will be happening so we'll know the relevance.

24                   MR. SHOSKY: Thank you, Dr. Charles, for  
25 asking me the question and downgrading me today. The

1 intention of the side-casting basically is for the  
2 initial channel construction which will remain open for  
3 the remainder of the time.

4 So the idea was, what we put on the table  
5 so far was the barrier coffer dam is going to be  
6 installed now. There'll be a series of sheet piling  
7 that'll go in prior to the channel dredging to occur.  
8 Basically without getting into all the details for  
9 containment structures within sheet piling and the shore  
10 side-casted sediments from the channel would be placed  
11 into that system which would consist of the barrier wall  
12 and the sheet-piling.

13 We've also looked at the possibility as a  
14 second alternative of putting it on dry land and trucking  
15 it but the one we're proposing right now is to basically  
16 side-cast that material inside the stone coffer dam  
17 that's being installed and the sheet pile. So in our  
18 mind it's a contained system.

19 MR. CHARLES: With that description -- and  
20 I guess I'm putting you on the spot here because I'm  
21 asking for an interpretation of the disposal at sea  
22 regulations. Does that sound like something that would  
23 trigger a requirement for a permit?

24 MS. DOBER: We would still need additional  
25 details in terms of whether there was still tidal action

1 going back and forth and what the details of the  
2 containment of those sediments would be.

3 MR CHARLES: So your answer is it might?

4 MS. DOBER: It might.

5 MR. CHARLES: All right. Well, let's  
6 leave that for awhile. We'll cast that aside and move  
7 on. My next series of questions has to do with the role  
8 of Environment Canada, if any, in the development of the  
9 project itself going right back to the JAG process and  
10 the comparison and evaluation of the costing of the RAER  
11 alternatives and subsequent to that. Is it possible to  
12 give us a brief description of how you were involved, if  
13 you were, the department?

14 MR. ABRAHAM: Well, Maria's been involved  
15 certainly much longer than I and so Maria has some good  
16 background on that so she'll share that with us.

17 MS. DOBER: Maybe I can start by giving a  
18 little bit of a context. From 1996 to 2004, Environment  
19 Canada was the Federal lead on activities related to the  
20 Sydney Tar Ponds. As part of our role in that, we  
21 certainly participated in the majority of activities that  
22 took place, be that at some point in actually issuing  
23 contracts for work that might have been done or  
24 participating in the development and review of contracts  
25 that others would have led.

1                   We did participate in the review of the  
2         remedial action evaluation report. I think that's a  
3         matter of public record that our department was involved  
4         in that. And subsequently when we received the  
5         recommendation from the Joint Action Group the -- we  
6         participated with the other government agencies in the  
7         review of that recommendation and the review of all of  
8         the information that we had had available at that time in  
9         developing some proposed options that could be put  
10       forward to our senior managers.

11                  MR. CHARLES: And I take it that  
12         Environment Canada then, would have approved the process  
13         that was ultimately put forward for this project, which  
14         involves partial excavation and destruction of PCBs and  
15         stabilization and bioremediation, that sort of thing?

16                  MS. DOBER: There was agreement between  
17         all parties to the former cost share agreement that this  
18         would be the recommendation that was proposed to  
19         governments.

20                  MR. CHARLES: Thank you.

21                  DR. LAPIERRE: I would just like to ask  
22         one question regarding toxic waste. Once the -- and it  
23         relates to the ash in the incinerator. Once the ash is  
24         removed from the incinerator, if it was to exceed  
25         guidelines on concentrations of certain metals and I

1           don't know which guidelines those might be right now  
2           because you indicated the CCME might be locked away  
3           someplace and no more available.

4                         I imagine the guidelines would be  
5           guidelines that would have been agreed to. But how -- if  
6           you burn and you produce waste that would be above and  
7           beyond the exceedance for certain chemicals, would that  
8           ash become toxic waste? And if so, then how would it be  
9           treated for permitting and removal and transportation?

10                  MS. DRAKE: In that case, with it being  
11           disposed of on Federal land, what we would ask for is  
12           that the treated ash, after it was stabilized, be  
13           subjected to a leachate test which is how we define  
14           hazardous waste under the Canadian Environmental  
15           Protection Act and the Transportation of Dangerous Goods.  
16           And that would look for metals. We'd do a leachate test  
17           on the treated material and test for metals and that sort  
18           of thing.

19                  DR. LAPIERRE: So where would the  
20           treatment tests be conducted because the incinerator is  
21           not going to be at the same location where the ash might  
22           be stabilized. So would you require a test prior to it  
23           leaving the incinerator and would that be data that you  
24           would use for permitting and transporting on either a  
25           rail or a roadway?

1                   MS. DRAKE: For the purposes of  
2 transportation it would have to be tested before it would  
3 leave the incinerator site. And if it was leachate  
4 toxic, it would have to be transported as a hazardous  
5 waste. From the purposes of disposal, ultimately, it  
6 would be tested after it was treated. So I guess both --  
7 I should try to clarify that. It would be tested both --  
8 two times.

9                   DR. LAPIERRE: It would have to be tested  
10 both times?

11                  MS. DRAKE: Yes.

12                  DR. LAPIERRE: And depending on the  
13 toxicity then it would be permitted for travel.

14                  MS. DRAKE: Yes.

15                  DR. LAPIERRE: Thank you.

16                  THE CHAIR: I'm sorry. If I may, Mr.  
17 Charles, I just want to jump in there on that. Are you  
18 saying that the -- that Environment Canada has a role in  
19 regulating the disposal of -- if by any chance the bottom  
20 ash from the incinerator were deemed to be hazardous  
21 waste that you would have a role in regulating its  
22 disposal within Nova Scotia?

23                  MS. DOBER: At this point there are no  
24 Federal regulations for the disposal of hazardous waste.  
25 What we would do is make recommendations as to an

1 appropriate method of disposal. The jurisdiction  
2 obviously becomes an issue. If it's not -- if the waste  
3 is not produced in an incinerator on Federal land,  
4 obviously our role is much smaller than it would be  
5 otherwise.

6 DR. LAPIERRE: I guess the question, then,  
7 is the Transportation of Hazardous Waste Act implies only  
8 if you move material, if I understand you correctly  
9 between provinces. And it wouldn't apply if you move it  
10 within a province?

11 MS. DRAKE: The Transportation of  
12 Dangerous Goods Act does -- what has happened, if it's  
13 transported in the province by road, it's a provincial  
14 regulation. If this material is being transported by  
15 rail, I believe that still falls to the Federal  
16 Government so -- but essentially the Provincial and  
17 Federal regulations are very similar. So I would expect  
18 that the requirements for transportation -- I mean, you'd  
19 have to ask the Provincial colleagues but it would fairly  
20 similar in terms of the waste manifest and that type of  
21 thing.

22 DR. LAPIERRE: By rail, you mean -- if the  
23 rail was privately owned would it make a difference?

24 MS. DRAKE: That's something I'd have to  
25 follow up on with my colleagues with Transport Canada.

1                   MR. CHARLES: I just have -- or I  
2 shouldn't say that -- I won't commit myself. I have one  
3 question at least. On the Stockholm Convention, you  
4 mentioned that May the 6th is an important date because  
5 -- is this the date when Canada's National Plan gets  
6 presented? I may have misunderstood ---

7                   MR. ABRAHAM: I think it was May 17th but  
8 the plan, if I understand correctly, has to be in the  
9 hands of the parties by two years after the signing of  
10 the Convention. And that date is May 17th, in two weeks  
11 time.

12                  MR. CHARLES: Okay, I guess my question is  
13 would that plan become public -- available to the public  
14 at that time?

15                  MR. ABRAHAM: I would expect so, yes.

16                  MR. CHARLES: Because if it has policies  
17 in it regarding disposal or control or whatever of PCBs  
18 for example, it would have a bearing on this project I  
19 would think.

20                  MR. ABRAHAM: That plan would be  
21 available.

22                  MR. CHARLES: That would be available.  
23 Okay. And this is my final question. You've mentioned  
24 in your report that there are information gaps in the  
25 material provided, particularly in relation to estimated

1 cumulative ambient air concentrations. And I guess my  
2 question is this, are these gaps significant enough if  
3 they're not filled that we should have concerns about  
4 significant adverse effects from the project. Even  
5 allowing for conservative modelling and all the rest.

6 MR. HINGSTON: We've got no information  
7 right now that would allow us, you know, to have I guess  
8 this level of concern about that. I think, again, it  
9 comes down to two things. One it still comes down to  
10 some limitation on the project details. And then  
11 recognizing the concerns are built in. I think we're  
12 really just trying to increase our level of comfort.

13 What we see is actually a very appropriate  
14 way forward and I think on Tuesday Dr. Walker actually  
15 mentioned a project like this it would be a reasonable  
16 step forward that once you do get all of the design  
17 details pulled together to actually do that remodelling  
18 and then I think that increases everybody's comfort  
19 level.

20 So I think we'd sort of like to see at  
21 that time -- we'd say, "Okay, at that time you do the  
22 remodelling", I think we've pointed out, both in our  
23 presentation and in questions where we see some of the  
24 gaps. In some cases I think it's areas where information  
25 simply hasn't been presented. The Proponent has said

1           they've looked at it and they don't believe it's an  
2       issue. And I think, you know, upon remodelling once you  
3       have the final details and seeing that information  
4       presented, it's more than likely that we will be  
5       comfortable with that -- you know, again, in the results  
6       of that information, because I see right now -- I think  
7       it's more a gap in information that was presented, not  
8       necessarily a sense that there is something very  
9       significant to worry about.

10           MR. CHARLES: So, in a sense it comes down  
11       to faith and trust?

12           MR. HINGSTON: There is some of -- there  
13       -- I think that's where we're trying to actually get a  
14       little bit away from the faith and trust and into a final  
15       set of information before the approval is given.

16           MR. CHARLES: Yeah, I understand that.

17           MR. HINGSTON: Yeah.

18           MR. CHARLES: But I'm saying at the  
19       present time we're having -- you're having to, and to  
20       some extent the Panel is having to, accept certain things  
21       on trust because we don't have the information.

22           MR. HINGSTON: Yeah. I mean, in our case  
23       there is a certain amount of, I guess, professional  
24       judgment where I would lean strongly towards saying, you  
25       know, I don't see a very large, significant issue but I'd

1 have to temper that with the fact that, no, there's still  
2 a little bit of missing information that I would like to  
3 see.

4 MR. CHARLES: That's fine. Thank you very  
5 much.

6 MR. ABRAHAM: Just to highlight that,  
7 though, we have asked that these details be provided  
8 before we can -- before we're comfortable enough to give  
9 regulatory approval, so -- or so that regulatory approval  
10 is given. So, based on our expertise, you know,  
11 Michael's and others', we don't have any suspicions but  
12 we do want the details.

13 MR. CHARLES: Sure, I can understand that.  
14 And when you make your decision will be in a different  
15 time frame than when we make our decision. Thank you.

16 THE CHAIRPERSON: I am very soon going to  
17 call a break -- that's the carrot -- but I would like to  
18 just explore a little bit further.

19 You've indicated that you were really one  
20 of the parties to the development of the current proposal  
21 as a remediation approach and I would like to ask you to  
22 reflect a little bit, tell us a bit more about the  
23 strategy around removal and destruction of PCBs and which  
24 PCBs from the Tar Ponds, especially in light of Canada's  
25 various commitments and the development of this national

1 plan and so on. How does this fit in?

2                           What we have learned is that -- the  
3 Proponent has indicated that of the areas that they have  
4 delineated where PCBs are over 50 parts per million  
5 they're going to -- proposing to remove 89 percent of  
6 those, and we've had some questions, as you've probably  
7 been following, about -- and we're waiting for some  
8 undertakings to come in with respect to total mass and so  
9 on and some other questions about PCBs at depths that may  
10 not have been sampled and so on.

11                          Setting that aside, can you tell us a bit  
12 about how you interpret Canada's national approach to  
13 this and how this project fits in with it.

14                          I'll give you the second question right  
15 now, too, so you've got it. I'm going to take the next  
16 big step and say there'll be PCBs left in the North and  
17 South Ponds. When we get our undertaking on total mass  
18 we'll have a better sense of how much of the mass, it may  
19 be in low concentrations, it'll still be there.

20                          Why remove some and leave others?

21                          MR. ABRAHAM: Well, I'll let Maria get to  
22 the details, but when I talked about the toxic substance  
23 management policy, it's not cut and dried. So, there's  
24 some assessment that has to be done basically minimizing  
25 the overall impact on the environment, and more or less a

1 cost benefit kind of analysis and other analysis with  
2 respect to environmental risks.

3                   But Maria may have more details with  
4 respect to how we exercise those kind of decisions, those  
5 kind of analytical processes, in particular in this case.

6                   MS. DOBER: As we went through the  
7 evaluation process for trying to determine what  
8 methodologies to put forward we did consider carefully  
9 the recommendation that came out of the Joint Action  
10 Group, and they had expressed a preference for full  
11 removal and destruction of all of the contaminants.

12                  I think we've heard over the last few days  
13 that that can be prohibitively expensive, and we felt  
14 that by making a recommendation to remove the PCBs that  
15 we would, in fact, be removing the most toxic, persistent  
16 biocumulative, the Track 1 substance, in concentrations  
17 greater than 50 which is the generally accepted standard  
18 in terms of regulations from the environment, and that is  
19 resulting in the removal and destruction of 120,000  
20 tonnes of material which is no small thing.

21                  In terms of how that relates to our  
22 national policies and international obligations, it fits  
23 within those.

24                  Also, the leaving in place of residual PCB  
25 concentrations also fits within those policies, because

1           they're not prescriptive, they recommend remediation  
2           where waste already exists in the environment, but as we  
3           have heard they also allow a cost benefit analysis of  
4           some of the issues surrounding those. And as long as  
5           there are ways to minimize the potential migration and  
6           risks associated with those chemicals, management is an  
7           accepted approach to do that.

8                         So, from our perspective the containment  
9                         and -- the treatment and containment of the remaining  
10                       PCBs is consistent with our policies and obligations.

11                      MR. ABRAHAM: I may just take the time  
12                       just to read from our website, right from the policy.  
13                       There may be some details that I didn't -- that weren't  
14                       in my presentation. And it says:

15                       "Remediation may be undertaken when a  
16                       Track 1 substance..."

17                      And I've pointed out that PCB is a Track 1  
18                       substance.

19                       "Remediation may be undertaken when a  
20                       Track 1 substance is already in the  
21                       environment. For sites under federal  
22                       jurisdiction that are contaminated by  
23                       a Track 1 substance, management plans  
24                       will consider the elimination of that  
25                       substance based on an analysis of

1                             risks, costs and benefits."

2                             That's what Maria was saying.

3                             "Where the benefits to the ecosystem  
4                             or the human health of removing the  
5                             substance outweighs the cleanup  
6                             costs, including the possibility of  
7                             further environmental degradation,  
8                             remediation will be considered.

9                             Otherwise..."

10                           So, there is another option.

11                           "Otherwise, management strategies  
12                             will focus on minimizing the exposure  
13                             and the site's potential risks."

14                           So, it gives you some flexibility of what  
15                             makes sense.

16                           THE CHAIRPERSON: What's happening in the  
17                             rest of the country? There must be other sites  
18                             contaminated with PCBs. I take it that the mobile  
19                             incinerators are not being used. We don't have many  
20                             examples.

21                           MR. ABRAHAM: Well, there are too many  
22                             contaminated sites in this country for sure. The  
23                             strategies -- and I don't have a lot of experience, I've  
24                             only got, you know, limited experience in dealing with  
25                             some of these contaminated site issues, but just the two

1           that I have been dealing with in the last year have been  
2           in the Great Lakes, as a couple of examples of  
3           contaminated sites.

4                         One was in Cornwall, Ontario and it was  
5                         sediment in the harbour, or the river bed there, and the  
6                         decision by the community, by the governments, by First  
7                         Nations and by science was to leave the sediments and  
8                         manage the sediments -- because that was the best  
9                         approach to minimizing the impact on the environment --  
10                         and having a sediment strategy, a very well-defined  
11                         sediment strategy in place.

12                         There's another very contaminated site,  
13                         probably the most toxic site in the Great Lakes off of  
14                         Hamilton Harbour, it's called Randall Reef. That area --  
15                         the strategy that's being proposed there, but the money  
16                         is not available at this time -- but the strategy is a  
17                         containment strategy, a kind of a capping and containment  
18                         strategy, and, in fact, the end result of that strategy  
19                         would end up being an infrastructure that would be used  
20                         by the port authority in the City of Hamilton. So, there  
21                         would be use made of the actual structure that would  
22                         contain the contamination that now resides in Randall  
23                         Reef in Hamilton Harbour.

24                         So, they're all -- they're individual, the  
25                         approaches taken are quite individual, but I'm not aware

1 of, within federal jurisdiction, why we don't have a lot  
2 of use of these mobile PCBs myself. Unless Maria has  
3 something?

4 MS. DOBER: There is a remediation project  
5 that has been conducted over the last few years in Saglek  
6 in Labrador, and the preferred and chosen remediation  
7 option for that, for the PCBs greater than 50, was  
8 excavation, removal and transport to an incineration  
9 facility in Saint-Ambroise, Quebec.

10 THE CHAIRPERSON: I think I'm going to  
11 call a break now. Thank you very much for your  
12 presentation. We will take a 20-minute break and then  
13 when you come back it's possible the Panel may have one  
14 or two more questions, but then it'll be time for us to  
15 open up questions to other participants.

16 So, it is now 10:40. We'll resume again  
17 at 11 o'clock. Thank you very much.

18 RECESS: 10:40 A.M.

19 RESUME: 11:04 A.M.

20 THE CHAIRPERSON: If we can resume this  
21 session, please. I just have a couple more questions for  
22 the presenters before we go to the questioning from other  
23 participants in the hearings.

24 I would like to just ask Environment  
25 Canada, now the sediments that are going to be removed

1 from the Tar Ponds and destroyed, I think, correct me if  
2 I'm wrong, that it would be fair to say that this would  
3 be considered to be federal waste.

4 MS. DOBER: It's a somewhat difficult  
5 question to answer because, at this point in time, the  
6 Tar Ponds have several different owners of various  
7 components of the Tar Ponds, and I understand that the  
8 proponent was providing a map which identified which  
9 areas they were.

10 THE CHAIRPERSON: Fair to say that  
11 probably a significant proportion of the sediments are --  
12 likely originate from federally-owned property?

13 MS. DOBER: Some of the sediments would  
14 originate from federally-owned properties, yes.

15 THE CHAIRPERSON: You're going to be  
16 careful about how much you claim to?

17 MS. DOBER: Until I see the actual  
18 boundaries of the site properties, I wouldn't be able to  
19 determine.

20 Certainly, from my understanding of the  
21 ownership, the material that's located in the south pond  
22 is not on federal property at this point. The block of  
23 PCBs in the north pond, there would be some distribution  
24 between different owners.

25 THE CHAIRPERSON: And nonetheless, the

1                   Federal Government is paying the larger share of the  
2                   remediation for this project.

3                   MS. DOBER: The Federal Government has  
4                   committed up to 280 million, which is being administered  
5                   through Public Works.

6                   THE CHAIRPERSON: So then the proposal for  
7                   the project is that the sediments will go to be destroyed  
8                   in an incinerator that's on lands that are currently in  
9                   federal ownership.

10                  However, just before this -- and if,  
11                  indeed, it remains in federal ownership, then the Federal  
12                  Government would be regulating the incinerator under your  
13                  regulations. And you've told us this morning that, in  
14                  fact, it would be regulated presumably under your new and  
15                  improved regulations, yes? And I'm not aware but that --  
16                  we'll be talking with the Provincial Department of  
17                  Environment and Labour but I'm not aware that they have  
18                  anything comparable in their regulatory toolbox, and yet  
19                  the land that the incinerator is proposed to be installed  
20                  on is -- the proposal is that it be transferred to the  
21                  province, and so that then you no longer have either the  
22                  ability or the responsibility to regulate that activity.

23                  I don't know, would you like to reflect on  
24                  that? I'm going to say that -- suggest that there's some  
25                  people might say that the optics of that don't look all

1                   that good.

2                   MR. ABRAHAM: It is -- I understand  
3 exactly what you're saying, and the optics are not that  
4 good, but we would expect that the Provincial Government  
5 would insist on the same standards within the regulations  
6 of the Federal Government. So that would be our position  
7 on that.

8                   MS. DOBER: My understanding, and you'd  
9 have to confirm with representatives from the Nova Scotia  
10 Department of Environment and Labour, but my  
11 understanding is that there's been a commitment by the  
12 government that they will adopt the use of the Canada-  
13 wide standards in their activities.

14                  THE CHAIRPERSON: Sorry, just related to  
15 that, we have had some discussion earlier in the hearings  
16 to -- with respect to long-term liability and future  
17 uses, and who ends up with the liability and so on, and  
18 could you -- and even as I ask the question, I think  
19 probably this belongs with Public Works and Government  
20 Services Canada, but I'll ask you and you can give your  
21 answer, and then they can file it away and know that I  
22 will ask them or somebody will ask them at some other  
23 point, but what is your understanding of what liability  
24 the Federal Government will retain with respect to  
25 remaining wastes anywhere? And in this project, I know

1                   the idea is to transfer lands to the province, do you get  
2                   to transfer your liability?

3                   MS. DOBER: You mentioned that you should  
4                   really be directing that question to Public Works, and I  
5                   think that's correct.

6                   THE CHAIRPERSON: I shouldn't have said  
7                   that, should I!

8                   MR. ABRAHAM: We would have given you that  
9                   answer anyway!

10                  THE CHAIRPERSON: Dr. LaPierre has a  
11                  question for you.

12                  DR. LAPIERRE: One question relating to  
13                  groundwater. In the Coke Oven Sites there's a programme  
14                  for deviating groundwater, and there's also a programme  
15                  in place in EIS for pumping and treating groundwater.

16                  The results of the risk analysis on the  
17                  area seems to indicate no problem, you know, with the  
18                  process once you've deviated the groundwater and deviated  
19                  sufficient flow. Why would you continue a groundwater  
20                  pumping programme? What would be the rationale for a  
21                  groundwater pumping programme if the risk analysis shows  
22                  no problems?

23                  MR. BICKERTON: I'm not sure what you're  
24                  referring to, the pumping programme, what -- I recall  
25                  there's an aspect that they mentioned, the proponents had

1 mentioned, that they could use pumping technology, and  
2 there certainly was a pumping component in the collection  
3 system. Is that what you're referring to?

4 DR. LAPIERRE: Well, I'm trying to  
5 understand why you would pump and treat water from the  
6 Coke Oven Site if your risk analysis -- once you've  
7 deviated the groundwater table, once you've deviated the  
8 surface water, why would you continue a pump and  
9 treatment of that area?

10 MR. BICKERTON: My understanding, and you  
11 should confirm that probably with the proponents, is that  
12 the pumping of the groundwater came from their  
13 interceptor trench system.

14 So that's kind of a passive system that  
15 collects groundwater that normally would have been  
16 migrating of the site. That was my understanding.

17 And I think there was some indication, if  
18 my recollection is correct, that they could, if they had  
19 to, institute some other pumping for a hydraulic control  
20 area, some preventative measures. But I thought the main  
21 aspect of that was in the collection system, but perhaps  
22 you could ask the proponent to confirm that.

23 DR. LAPIERRE: Sure, if -- I just want to  
24 clarify it.

25 MR. SHOSKY: I just want to make sure that

1 I understand the question before I answer, and the  
2 question was what additional controls, besides just the  
3 diversion devices that we have there, will be in place.

4 DR. LAPIERRE: Well, I guess the question  
5 is more specific, why would you pump the groundwater once  
6 you have your diversion mechanisms in place? What's the  
7 reasons for doing it?

8 MR. SHOSKY: There's a few of the  
9 diversion items that we have in there that are also  
10 collection systems or near-collection systems. So it's a  
11 combination of diversion and collection and, in some  
12 cases, those collection systems would need to be pumped  
13 if anything is found in them.

14 Right now, several of those areas we don't  
15 anticipate, at this point in time, once they're  
16 installed, that we have any collected DNAPL or anything  
17 like that in it, but they're there in case we do come  
18 across it in the future so that that material can be  
19 pumped.

20 Originally, that area called for some  
21 shallow wells. The results of our conductivity, our  
22 pumping test, had indicated that there is not as much  
23 water in that area as was originally anticipated, and  
24 that's when we went to these collection trenches in those  
25 areas as opposed to a series of wells. But the intention

1           is is if anything is found in those trenches, or in the  
2           proximity of those trenches, and it makes sense to pump  
3           those trenches out, then they will be pumped out in order  
4           to maintain that hydraulic control in the fully-contained  
5           system.

6                             DR. LAPIERRE: But the risk analysis that  
7           you've conducted indicates that there wouldn't be any --  
8           you don't anticipate any problems in those areas.

9                             MR. SHOSKY: That is correct. And as  
10          you'll see with a lot of the things that we've done, a  
11          lot of times the risk analysis took into account the  
12          state of events without a lot of additional engineering  
13          controls. Once the engineering controls come into play  
14          again, in a number of different media that we are dealing  
15          with out there, that's an added level of control and  
16          safety that's put on the construction project.

17                             DR. LAPIERRE: Okay. Thank you.

18                             THE CHAIRPERSON: This is a quick  
19          question.

20                             You indicated in your presentation that  
21          you are currently a responsible authority. If and when  
22          the land, the incinerator site is transferred to the  
23          province, you would cease to be a responsible authority.  
24          But I guess the question is, we had some discussion about  
25          the possible need for disposal-at-sea permits. If

1 there's a need for a disposal-at-sea permit, do you now  
2 become a responsible authority again?

3 MR. ABRAHAM: Yes.

4 THE CHAIRPERSON: For the duration of the  
5 -- for 35 years.

6 MR. ABRAHAM: I would assume so.

7 THE CHAIRPERSON: Sounds like a  
8 significant sentence, doesn't it? Thank you for that  
9 clarification.

10 I would now like to open up the  
11 questioning to other participants in the hall.

12 I see a few more faces here, so my  
13 apologies to people who have heard me say this over and  
14 over again, but as I'm sure you all know we expect, and  
15 have always achieved, that all the questioning be carried  
16 out in a concise and courteous manner. I'm sure that  
17 will happen today as well.

18 The procedure that we use is that I have a  
19 roster that I go through to ask if -- give priority to  
20 people on that roster, and the roster consists of people  
21 who are registered to present. Then I open it up to  
22 questions from other people who are not registered  
23 presenters, and, as time allows, we can proceed through  
24 to another round.

25 I did say that I am going to change around

1                   the order of the roster so that the first shall be the  
2                   last and the last shall be first, or something like that.  
3                   So I will probably do a little bit of that today, as  
4                   well.

5                   I realize that we are going to stick to  
6                   our schedule in the sense of putting on Health Canada at  
7                   1 o'clock, as they are in the schedule.

8                   At the lunch break, which will be at  
9                   12:00, we will -- the panel will reassess where we are in  
10                  terms of providing enough time for the other participants  
11                  to have questions, and we'll consider what we should do  
12                  and make arrangements as necessary. So don't despair at  
13                  the moment.

14                  So I am going to -- I will ask the  
15                  proponent, at this point, if they have any questions. I  
16                  may come back to them a little later on, as well, to give  
17                  them a chance, but I think it might be appropriate right  
18                  now to see if there are any matters that they would like  
19                  to ask to clear up that would help the rest of the  
20                  questioning.

21                  MR. POTTER: Thank you, Madam Chair, we  
22                  don't have questions right now. We may come back with  
23                  some later on.

24                  There are two points I think might add  
25                  some clarification that we would like to bring up. One

1           we are actually ready to go right now, if you can  
2           spare us a minute or two, and one we'll have a little  
3           later on, I'm not sure if we'll have it before -- well,  
4           depending on how the rest of the day goes. I'd like to  
5           turn over to Dr. Magee right now to address one of them.

6                           THE CHAIRPERSON: Yes, please go ahead,  
7                           Dr. Magee.

8                           DR. MAGEE: If you'll excuse me for --  
9                           I'm trying to get some materials here.

10                          I did some quick calculations here as we  
11                          walked into the group -- just walked into the room, just  
12                          as an example.

13                          For instance, if we look at the Response  
14                          to IR-72, of which I know all the Panel as well as  
15                          Environment Canada is well aware of that series of 12 or  
16                          13 tables.

17                          Just a couple of quick examples where  
18                          total suspended particulate, the highest total cumulative  
19                          annual average was 51 micrograms per cubic meter, as  
20                          shown in those tables. Of that, our predicted site  
21                          activity was responsible for eight micrograms, the  
22                          background from our monitoring over the last five years  
23                          or so contributed 43.

24                          We then looked at the incinerator  
25                          predictions, looked at the isopleths. The isopleths that

1 we could get our hands on -- these are the graphs that  
2 show how the incinerator emissions drop, as the geography  
3 proceeds towards downtown -- we didn't have the numbers  
4 any further than Grand Lake, but the number at Grand Lake  
5 for the annual average total suspended particulate was  
6 .01, so by the time we get to downtown, it's going to be  
7 two, three, four more orders of magnitude lower, as an  
8 example.

If you look at our table there in that  
Response that was -- 1.65 of that was predicted by our  
site activities from the proposed project. 0.07 was  
contributed by local background from whatever sources.

Again for the incinerator we predicted naphthalene. All we have readily available is what the level would be by the time you get to the close edge of Grand Lake. It was 0.0001.

So, just in a short period of time we just wanted to give the Panel and Environment Canada some sense of how the overlap is really quite insignificant.

24 THE CHAIRPERSON: Thank you, Dr. Magee.

25 MR. HINGSTON: Could I just make one very

1 quick response to that?

2                   Besides that I think he did mention the  
3 annual -- and I do appreciate the quick calculations.  
4 We're also very interested again -- I don't think it's  
5 needed today -- but before the approval stage you do have  
6 the 24 hours average where in some cases. For example,  
7 your TSP do have exceedances and do talk about per  
8 decitabine, 200 percent of the allowable limits.

9                   So, you know, in the process we would be  
10 interested in the 24 as well as the annual.

11                  DR. MAGEE: Well, we have all the numbers,  
12 so it's quite easy to pull them together.

13                  THE CHAIRPERSON: I will first ask if we  
14 have any representatives of either the federal government  
15 -- other federal government departments, provincial  
16 government departments or agencies or the municipal  
17 government, CBRM -- anybody present here today who has a  
18 question for Environment Canada.

19                  I'm seeing nobody. I'm now going to move  
20 on to my roster here, and bear with me, I have to do what  
21 I have to do every day, which is I probably -- go through  
22 the list, so that I know who may be present, so that I  
23 can offer them an opportunity.

24                  What we're going to do is -- we have 40  
25 minutes -- I'm going to on this first round, depending on

1 how many I see, I'm going to offer you five minutes to  
2 ask questions. I know that that may not seem like a lot,  
3 but, as I said, we will try and fit your questions in at  
4 a later stage, if necessary.

5 So, I'm going to -- I will go from the top  
6 this time. Mr. DeLeskie is not present, I don't think,  
7 Return to Sender Coalition. Save Our Health Care  
8 Committee? Yes, you would like to ask questions. Five  
9 minutes.

10 ENVIRONMENT CANADA AND GOVERNMENT SERVICES AGENCY

11 --- QUESTIONED BY SAVE OUR HEALTH CARE COMMITTEE

12 MR. ARGO: Thank you very much, Madam  
13 Chair. My name is Jim Argo. I spoke to you -- a couple  
14 of you at break.

15 My particular specialty is medical  
16 geography.

17 THE CHAIRPERSON: Mr. Argo, I think it  
18 would be better, if you speak to me, then you will be  
19 facing the microphone.

20 Because when you face that way, we're  
21 losing you.

22 MR. ARGO: My apologies.

23 THE CHAIRPERSON: So, I'll ---

24 MR. ARGO: Okay. Is this better?

25 THE CHAIRPERSON: That's just great.

1 MR. ARGO: Thank you. My name is Jim  
2 Argo. My specialty is medical geography. I'm  
3 particularly concerned with how a person's health today  
4 is affected by where they have ever lived.

5 So, I'm -- I've applied that in this  
6 situation in Sydney.

7 My main concern is carcinogens, cancer,  
8 end point, but I consider quite a few other end points.

9 Now, one of the problems that I have is  
10 with the Canada-Wide Standards, and that's why I'm  
11 speaking to Environment Canada who administer it.

12 The Canada-Wide Standards are -- I went  
13 into the CCME site this morning, and I cannot find any  
14 indication that the Canada-Wide Standards are what we  
15 call risk based.

I'm looking -- in looking at the Canada-Wide Standards for dioxins furans, it allows the contractor to release 80 nanograms of international TEQs, toxic equivalent per cubic meter -- oh, sorry, picograms of -- per cubic meter of dioxin.

Now, the dioxin -- dioxin has been identified as a carcinogen. The International Agency for Research on Cancer identified dioxin as a carcinogen in 1997.

25 In Canada we treat the release of cancer

1 -- of carcinogens in a way that says we will allow --  
2 since there is no minimum concentration that is  
3 acceptable down to the last molecule -- so, we will  
4 accept that you release a carcinogen with the proviso  
5 that it must have -- it must be at a level that will  
6 create a risk of one in a million for cancer. That's  
7 Canada.

8 My question to Environment Canada with  
9 respect to the Canada-Wide Standard for dioxins is how  
10 does the 80 picogram per cubic meter -- the Canada-Wide  
11 Standard that they have established -- how does that  
12 relate to a risk of 1 in a million for the people around?

13 MR. HINGSTON: I can provide part of that  
14 answer and the rest will sort of have to divert to health  
15 specialists. But by their very nature a Canada-Wide  
16 Standard on emission limits at the picogram per meter  
17 cubed on its own cannot sort of fall into a risk  
18 assessment.

19 Now, to give you a simple example, the  
20 Canada-Wide Standard says nothing about, if we have one  
21 facility here with an 80 picogram per meter cubed limit  
22 and we build another one next door, there's another  
23 source for that, all the information you would need to  
24 get a health based risk assessment.

25 So, in its own, the Canada-Wide Standard,

1                   recognizes that there's health effects from dioxin  
2                   furans, there's value in minimizing them, and it's a --  
3                   that's a number that says, you know, you shouldn't go  
4                   above this number.

5                   Further to that, and this is where I  
6                   should pass it over to Health, it would be very  
7                   appropriate to look at the given situation, the  
8                   geography, what other sources, to decide whether it's  
9                   appropriate to have a facility in an area or what extra  
10                  controls would be on that. But again the details of that  
11                  would have to go to Health.

12                  DR. ARGO: I accept that definitely Health  
13                  has to have an input here.

14                  In follow up, I would like to know -- one  
15                  of the problems with grey hair -- is that sometimes they  
16                  disappear.

17                  THE CHAIRPERSON: You don't have to have  
18                  grey hair to have that problem, I assure you.

19                  DR. ARGO: I'm not unique, I realize.

20                  May I ask another question on the same --  
21                  a slightly different aspect.

22                  THE CHAIRPERSON: Yes. If it can be a  
23                  fairly brief question.

24                  DR. ARGO: Yes, it will. Why  
25                  incineration?

1                   MS. DOBER: Incineration is still  
2 recognized as one of the most appropriate technologies to  
3 destroy organic material of this nature.

4                   DR. ARGO: From a health perspective it  
5 could not be a worst choice. It just could not have been  
6 worse. Thank you very much.

7                   THE CHAIRPERSON: Okay. Thank you, Dr.  
8 Argo.

9                   The Cape Breton -- I'll have to go through  
10 the list, so I usually only get to do this once a day.

11                  The Cape Breton District Health Authority.  
12 Kipin Industries, not present. Grand Lake Road  
13 Residents. Do you have a question, Mr. Marmon?

14                  MR. MARMON: My name is Ron Marmon. I  
15 apologize if I appear to be asking the same question, as  
16 I asked yesterday, but under this presentation and  
17 additional information, Federal Mobile PCB treatment and  
18 destructive regulations were given, but what we would  
19 like to see is the federal regulations covering temporary  
20 incinerators, including the definition of what  
21 Environment Canada deems temporary.

22                  And as a follow-up, the 1500 meter set-  
23 back was described today as only a general guideline, but  
24 we were told that the most stringent guidelines would be  
25 followed, and I believe that was confirmed yesterday by

1                   Public Works Canada.

2                   So, we would like to know if Environment  
3                   Canada considers the 1500 meter set-back a fair  
4                   definition of the most stringent guideline -- and I  
5                   believe the following are the most stringent guidelines,  
6                   is a condition of federal money being committed to this  
7                   Project.

8                   MR. MARSHALL: With respect to the  
9                   question on the definition of a temporary incinerator,  
10                  the only definition that we have in our regulations is  
11                  the definition of a mobile PCB destruction system, which  
12                  states that this means, mobile equipment that is capable  
13                  of destroying PCBs by thermal means.

14                  MR. MARMON: Madam Chair, I believe there  
15                  was a qualifier there that -- under definition of  
16                  temporary it was to be in operation for weeks or months.

17                  MR. ABRAHAM: But we have given commitment  
18                  though that we would be applying the regulations in this  
19                  Project with our understanding of temporary, being  
20                  applied to this Project.

21                  THE CHAIRPERSON: Yes, I did ask that  
22                  question this morning, and I think we were satisfied with  
23                  the commitment to that, if, of course -- if the  
24                  incinerator were operating on federally owned land.

25                  So, could you clarify your ongoing concern

1 on this issue?

2 MR. MARMON: The ongoing concern is back  
3 to the set-back -- our understanding is that it's a  
4 temporary incinerator and the rules are just not quite as  
5 strict, but the definition of "temporary" defines  
6 temporary as only used for weeks or months. So,  
7 therefore, the restrictions wouldn't be as strict.

8 THE CHAIRPERSON: I'm sorry. Can you  
9 remind the reference that you are quoting with respect to  
10 temporary comes where?

11 MR. MARMON: I believe Marlene Kane had a  
12 definition in the CCME guideline that she had listed.

13 I would have to ask her for ---

14 THE CHAIRPERSON: So, we're talking about  
15 something that's in the CCME citing guideline?

16 MR. MARMON: I think it was under  
17 destruction of PCB materials, 1990, I believe, she told  
18 me.

19 THE CHAIRPERSON: Can you shed light on  
20 this, please?

21 MS. DOBER: Could I ask that the question  
22 be repeated? I was conferring with my colleague.

23 THE CHAIRPERSON: Well, I'm trying to  
24 ascertain -- we had discussion this morning about the  
25 definition of mobile with respect to the mobile TC

1                   incinerator regulations, and I got an answer that was  
2                   satisfactory for the Panel's purposes.

3                   Mr. Marmon is talking about a definition  
4                   of "temporary" and I'm trying to just find out where this  
5                   definition is. It would be helpful to know exactly where  
6                   it appears.

7                   Perhaps you could just obtain that and  
8                   come back ---

9                   MR. MARMON: I will.

10                  THE CHAIRPERSON: Yes. Thank you.

11                  MR. MARMON: But whether the incinerator  
12                  is temporary or permanent we have commitments that the  
13                  most stringent guidelines would be followed, and I -- you  
14                  know, I really don't want to get hung up on definitions,  
15                  but I heard today where a 1500 meter set-back was only  
16                  described as a general guideline indicating that this  
17                  guideline is not to be followed, or it doesn't matter or  
18                  -- because the proposed location at the VJ site would put  
19                  no less than 20 homes within a distance of 1500 meters.

20                  So, we are quite concerned as to, are we  
21                  going to stick to the guidelines or are we not. And who's  
22                  going to enforce it.

23                  MR. ABRAHAM: Well, with respect to the  
24                  1,500 it's like anything. The earlier guidelines in  
25                  absence of science and technology such as monitoring and

1 modelling, are applied as a rule of thumb. And I  
2 suspect, although I don't know, that the 1,500 metres was  
3 a mile that was applied you know, in past times as a  
4 reasonable guideline.

5 And of course in our metric world it  
6 became 1,500 metres. And in the -- in our information  
7 age now we do have significant science and modelling and  
8 monitoring information that allows the Proponents and  
9 ourselves to assess guidelines that are based on that  
10 science. And we're comfortable that it was these  
11 approaches that were being -- are used now for the  
12 guidelines that are now in force.

13 MR. MARMON: Madam Chair ---

14 MR. ABRAHAM: Do you have something to add  
15 there?

16 MS. DOBER: Well, I'd just like to  
17 reiterate that we have been advised by CCME that those  
18 guidelines are out of date. And that appropriate  
19 methodologies to determine the need for an extent of a  
20 separation distance from proposed incinerators can best  
21 be addressed through the use of emissions modelling  
22 coupled with risk assessments.

23 THE CHAIRPERSON: I guess as I hear it,  
24 the -- but the other issue for -- that has presented  
25 towards us, is that residents feel that a commitment was

1 made to them to proceed under a certain set of guidelines  
2 whether or not they subsequently were determined to be  
3 out of date, I -- that's what I hear Mr. Marmon saying  
4 that you feel a promise was made to you.

5 MR. MARMON: Well, Madam Chair, we feel  
6 the problem -- or the promises were made to us but not  
7 only that, I mean why would we automatically assume that  
8 these guidelines were -- would be less stringent in the  
9 future. I mean, ordinarily CCME guidelines -- we're  
10 hearing now that the 50 parts per million are going to be  
11 reduced to 30 parts per million, whatever else we might  
12 be hearing.

13 So until a definite guideline is put in  
14 place we are only dealing with, you know suppositions.  
15 We assume that things are better today than they have  
16 been all along so therefore the guidelines would be less  
17 stringent. But in actuality, like we've been requesting  
18 to show us an incinerator like the one that's going to be  
19 used out there, give us some history, give us some  
20 technical data on what type of problems you've been  
21 having so that then we can say, "Well, yeah, we feel safe  
22 living near this piece of equipment or we don't."

23 We're going through all this assessment  
24 and we're saying but we don't have -- we expect the  
25 guidelines to change but as of today, they're not

1 changed. So therefore let's use guidelines that we think  
2 might be coming. And we don't agree with that.

3 THE CHAIRPERSON: Yes, thank you, Mr.  
4 Marmon.

5 MR. MARMON: Thank you, Madam Chair.

6 THE CHAIRPERSON: I would like to go to  
7 our next questioner, the Cement Association. Or the  
8 Portland Cement Association, are not here. Cape Breton  
9 University. Dr. Ron MacCormick. Sydney Academy. Cape  
10 Breton Chapter, JCI. Sydney and Area Chamber of  
11 Commerce. Cape Breton Partnership. Eco Canada. Sierra  
12 Club of Canada. I know you're here. Excuse me, did I  
13 miss -- sorry, just hold on a second, Mr. Marcocchio --  
14 I'm advised that somebody else put their hand up. Were  
15 you on the list as requiring -- no, sorry about that.

16 ENVIRONMENT CANADA

17 --- QUESTIONED BY SIERRA CLUB OF CANADA

18 MR. BRUNO MARCOCCHIO: It's all right.  
19 Just by way of clarification on a point that was raised  
20 by the last questioner, I believe Marlene Kane read into  
21 the record yesterday the definition of a temporary  
22 incinerator from a guideline. And I will endeavour to  
23 see if we can produce a hard copy for the panel.

24 MS. DOBER: Madam Chair, we have a copy of  
25 the guideline here if it -- if that would serve the

1 purpose.

2 THE CHAIRPERSON: And the guideline is ---

3 MS. DOBER: It's the guidelines for mobile  
4 polychlorinated byphenyl destruction systems. The CCME  
5 1990 guidelines.

6 THE CHAIRPERSON: All right. Thank you  
7 very much.

8 MR. MARCOCCHIO: Perhaps when you get a  
9 moment you could read the reference to the incinerator --  
10 temporary incinerator being one that operates for days or  
11 weeks or months, because that was the -- that's the issue  
12 at hand here. Because clearly that would indicate that  
13 that an incineration that would operate from three to  
14 five years is, in fact, not a temporary incinerator.

15 MS. DOBER: The description in these  
16 guidelines reads:

17 "Although the systems are classified  
18 as mobile, a six to eight on site  
19 set up and shakedown period can be  
20 required and a minimum job size on  
21 the order of five thousand tonnes of  
22 waste could be required."

23 I'm not sure if that's the exact reference  
24 but it's ---

25 MR. MARCOCCHIO: No, but that's another

1 germane one. It seems to me that 120,000 tonnes clearly  
2 exceeds 5,000 tonnes which again points to the fact that  
3 this is not a temporary incinerator. Thank you Madam  
4 Chair. You may be aware that in the past the Federal  
5 Government has committed that CCME guidelines will be  
6 adhered to as a minimum and The Sierra Club of Canada has  
7 put on the record yesterday letters from The Honourable  
8 David Anderson and The Honourable Sergio Marquis that  
9 made that commitment to us as a community as a minimum.

10                   So it's clear, then that we must comply  
11 with those CCME guidelines or exceed them and I would  
12 have to agree with the last questioner that that  
13 commitment is firm. It's in writing. It's before the  
14 record and should be complied with by Environment Canada  
15 and it's rather shocking that they're willing to  
16 backtrack from that now.

17                   Site specific considerations and risk  
18 assessments, well part of the CCME process typically  
19 result in less stringent guidelines. However, arguably  
20 their application in this circumstance, where there is a  
21 significant number of contaminants above generic CCME  
22 guidelines, both on site and in residential community  
23 adjacent to the site is debatable.

24                   Can you please undertake to provide the  
25 community with certainty that the actual generic CCME

1                   soil quality guidelines will be applied by Environment  
2                   Canada and that all contaminated sediments greater than  
3                   50 parts per million of PCBs will be excavated from the  
4                   Tar Ponds site and that the minimum siting requirements  
5                   of 1,500 metres be complied with?

6                   THE CHAIRPERSON: Did you get the parts  
7                   for that? There were several parts to that question?

8                   MS. DOBER: I didn't actually get the  
9                   question. I'm sorry.

10                  THE CHAIRPERSON: Actually, just a point.  
11                  When you're reading something, if you can just slow it  
12                  down a little bit. Our brains are not -- so we're trying  
13                  to hear what you're saying but could you just get to the  
14                  -- specify those questions again please.

15                  MR. MARCOCCHIO: Yeah, thank you. Can you  
16                  please undertake to provide the community with certainty  
17                  that the actual generic CCME soil quality guidelines will  
18                  be applied by Environment Canada? That all contaminated  
19                  sediments greater than 50 parts per million of PCBs will  
20                  be excavated from the Tar Ponds and that the 1,500 metre  
21                  set back set out in the CCME guidelines for siting be  
22                  complied with.

23                  MS. DOBER: In terms of the generic CCME  
24                  Environmental Quality Criteria, they're generally used  
25                  for how much clean up is required. There will be some

1 removal and destruction at this site but the majority of  
2 the site will be managed and in that instance the  
3 Environmental Quality Guidelines -- really what you're  
4 trying to do is to make sure that there's no migration  
5 off of those sites that would exceed those  
6 concentrations. If you're not cleaning up, you're not --  
7 or if you're not removing the material then you'll -- the  
8 guidelines are not really applicable.

9 THE CHAIRPERSON: I'd like to ask a  
10 clarification. What does the Sierra Club mean in that  
11 first instance? What do you mean by applying those  
12 generic soil quality guidelines, applying them in what  
13 way to what?

14 MR. MARCOCCHIO: We refer to applying them  
15 as a minimum standards. That is, that the site specific  
16 target levels should not be less stringent than the CCME  
17 health and risk based guidelines.

18 THE CHAIRPERSON: Do you mean at the  
19 surface?

20 MR. MARCOCCHIO: I think the point is that  
21 the CCME guidelines would drive the clean up across the  
22 Coke Oven site. Those generic guidelines, particularly  
23 with respect to perspective light industrial and  
24 residential land use in the future. They seem to be  
25 clearly the only ones that can be applicable given those

1 end uses.

2 THE CHAIRPERSON: But I think what I need  
3 to know is do you mean that -- I mean what the proposed  
4 remediation is is to cap the soils, the contaminated  
5 soils with a clean cap so at the surface -- and I'm sure  
6 the cap is going to meet those guidelines -- is that not  
7 what you mean? That doesn't -- that's not what you would  
8 like to see happen? You want all the soils, at what  
9 depth cleaned up to meet CCME guidelines?

10 MR. MARCOCCHIO: Those areas that have  
11 been identified that will not receive any remediation, if  
12 light industrial and recreational use is contemplated,  
13 the need to comply with those minimum guidelines for  
14 those projected land uses, future land uses.

15 THE CHAIRPERSON: Do you mean Mullins  
16 Bank? Do you mean the areas that there's no proposal not  
17 to -- there's no proposal to do any remediation in the  
18 means of vamping or ---

19 MR. MARCOCCHIO: Yes.

20 THE CHAIRPERSON: Okay. All right. Thank  
21 you. I've got that clear. I think you're just about at  
22 your five minutes. But do you have a quick follow up  
23 question?

24 MS. DOBER: Excuse me, Madam ---

25 THE CHAIRPERSON: Like a one-part

1 question.

2 MS. DOBER: Madam Chair, could I offer  
3 some clarification? The CCME Environmental Quality  
4 Guidelines are generic criteria that could be applied to  
5 contaminated sites. The CCME process also allows for --  
6 and in some cases encourages the use of risk-based site  
7 specific remediation objectives. And that is what has  
8 been done in this case.

9 THE CHAIRPERSON: Yes, thank you.

10 MR. MARCOCCHIO: Madam Chair, there are a  
11 number of questions that we would like to ask that come  
12 out of the direct evidence this morning. And also  
13 questions that were raised and suggestions from DFO  
14 yesterday that those would be more appropriately put to  
15 Environment Canada. So we certainly hope that we will  
16 have an opportunity to do that but I will ask a question  
17 now.

18 In -- on February 1st, 1990 the Goose Bay,  
19 Labrador temporary incinerator, as a result of several  
20 malfunctions exploded and resulted in the hospitalization  
21 of several of the workers at that incinerator facility.  
22 Can Environment Canada please elaborate on the background  
23 and the outcome of those and indicate whether they  
24 thought that that complied with the permit requirements  
25 for the Goose Bay, Labrador incinerator?

1                           THE CHAIRPERSON: Well, what I will do  
2 with that question is, since we have already asked -- as  
3 you know earlier, we've asked a question for more  
4 information about the operation so we'll roll that  
5 question into the panel request and we will -- I'm sure  
6 Environment Canada will provide information. Thank you  
7 very much.

8                           MR. MARCOCCHIO: Thank you.

9                           --- QUESTIONED BY THE PUBLIC:

10                          THE CHAIRPERSON: Mr. Ignasiak, do you  
11 have a question?

12                          MR. LES IGNASIAK: Madam Chair, I first  
13 would like to convey to the panel that I personally was  
14 quite impressed with the technical depth of the  
15 presentation from Environment Canada, and also to most of  
16 the answers to technical questions, except for those  
17 which were related to Environment Canada involvement in  
18 the technology selection process. This is actually quite  
19 confusing.

20                          I have in front of me a letter which is  
21 dated July 22nd, 2004 which is written by the chief  
22 negotiator of the agreement between the Federal  
23 Government and the Nova Scotia Government.

24                          THE CHAIRPERSON: Has this letter been  
25 tabled with us? Has it been part of your presentation?

1                   MR. LES IGNASIAK: Yes. This letter is  
2 tabled with the panel, yes.

3                   THE CHAIRPERSON: Yes, thank you.

4                   MR. LES IGNASIAK: I would like only to  
5 mention what is relevant at this stage, that this letter  
6 from the chief negotiator states clearly that the  
7 selection of technologies is exclusively the problem for  
8 the Sydney Tar Ponds Agency.

9                   Now, the other thing that is confusing to  
10 me is that I sense from some of the answers here that  
11 essentially Environment Canada actually contributed to  
12 the selection of technologies. That's the impression  
13 I've got when I listened to those specific responses.

14                   Well, again I would like to be very  
15 specific in response to that. In May ---

16                   THE CHAIRPERSON: You are going to develop  
17 this into a question for Environment Canada?

18                   MR. LES IGNASIAK: Yes.

19                   THE CHAIRPERSON: Thank you.

20                   MR. LES IGNASIAK: On May 5th, 2004 Mr.  
21 Parker Donham, who is the spokesman for the provincial  
22 Sydney Tar Ponds Agency stated:

23                   "With encouragement from Environment  
24 Canada, that promotes a Cadillac  
25 clean-up solution with dubious

1                    feasibility and affordability. In-  
2                    house risk analysis carried out in  
3                    the last three weeks concluded the  
4                    actual cost will approach 1 billion  
5                    dollars. "

6                    This is related to the cost of 521 million  
7                    dollars estimated by the Remedial Action Evaluation  
8                    Report. Over three weeks it appeared that this cost was  
9                    actually approaching 1 billion dollars.

10                  Now, I believe Environment Canada was  
11                  really involved into selection of technologies, and this  
12                  is associated with selection of technologies. Obviously  
13                  there should be some explanation. Have actually  
14                  Environment Canada contributed to this cost estimate  
15                  increase from 521 to 1 billion dollars?

16                  This is a particularly relevant question  
17                  in view of the fact that one year before the Sydney Tar  
18                  Ponds Agency received an offer, that the whole project,  
19                  without incineration -- incineration would be not  
20                  required, solidification would be not required, 95  
21                  percent of the contaminants would be removed and  
22                  destroyed off site -- this project would costs 392  
23                  million plus/minus 5 percent, and this offer was  
24                  guaranteed, for which never, never the offer received any  
25                  response.

1                   THE CHAIRPERSON: Yes. I need you to now  
2 place your question, please, Mr. Ignasiak.

3                   MR. LES IGNASIAK: My question is, is Air  
4 Canada really -- sorry, is Environment Canada really --  
5 was really involved in the cost estimates for this  
6 project?

7                   MS. DOBER: As I mentioned in one of my  
8 answers this morning when I tried to put context around  
9 Environment Canada's involvement, we led the Federal  
10 initiative from 1996 to May of 2004. We participated in  
11 the recommendation of remediation approaches that would  
12 be put forward to senior managers.

13                  The document that the witness is talking  
14 about, I cannot speak to.

15                  THE CHAIRPERSON: Thank you.

16                  Mr. Ignasiak, if you have a very quick  
17 follow-up question please, otherwise we would ask you to  
18 bring forward this information you wish to share with the  
19 panel during your presentation, and we'd be very pleased  
20 to hear it. But do you have a very quick follow-up  
21 question?

22                  MR. LES IGNASIAK: Madam Chair, I think  
23 that if I wanted to give a background for the next  
24 question then I probably wouldn't be able to do that, so  
25 I count that perhaps we will be allowed to ask additional

1           questions in connection with the Environment Canada  
2           presentation perhaps at a later date, because I cannot  
3           make it in half a minute.

4                         THE CHAIRPERSON: The panel is certainly  
5                         going to review that possibility, and will inform you  
6                         probably after the break.

7                         MR. LES IGNASIAK: I appreciate that very  
8                         much.

9                         THE CHAIRPERSON: Is Bennett Environmental  
10                  here? New Waterford and Area Fish and Game Association?

11                         We have an additional registered  
12                  participant, just recently registered, Mr. Ben Christmas,  
13                  from Membertou. Do you wish to ask a question at this  
14                  time? No? Thank you.

15                         Are there questions from anyone in the  
16                  public, who is not a registered participant? Yes, I have  
17                  two. I will take Mr. Harper first.

18                         MR. HARPER: Thank you, Madam Chair.

19                         THE CHAIRPERSON: Just a moment please.  
20                  Can I make sure I'm seeing everyone. I see Mr. Brophy at  
21                  the back. I'm sorry, I didn't see you, Ms. Ouellette.

22                         MR. HARPER: My question is does the  
23                  existence of buried infrastructure and deep bedrock  
24                  fractures on the Coke Oven site cause any concerns to  
25                  Environment Canada with respect to an accurate

1 understanding of groundwater flow through and off that  
2 site, especially with respect to neighbouring properties?

3 MR. BICKERTON: I'll handle the first one  
4 regarding the buried infrastructure first.

5 If the project proceeds as it is  
6 described, we don't -- Environment Canada does not have  
7 any concerns as long as the monitoring that we've  
8 recommended to the panel, and that we can participate in  
9 this development, can be included.

10 I think Mr. Shosky described quite well,  
11 in the sense that, during the installation of what  
12 they're proposing, they would capture that infrastructure  
13 during their construction, at least that we're reasonably  
14 confident that that would occur.

15 Returning to the bedrock fractures, that  
16 is an aspect that we have raised in our submission to the  
17 panel, and we do consider that there's still considerable  
18 uncertainty about the contaminants in those deeper  
19 fractures, although we do recognize that the majority of  
20 the contamination is in the upper parts of the fractured  
21 bedrock, which is the focus of the project that is being  
22 proposed. But we would like to have aspects of that  
23 addressed in the monitoring that we were recommending.

24 MR. HARPER: As a follow-up to that,  
25 you've indicated that you recommend some monitoring.

1                   Do you have any -- have you given any  
2 indication as to what specific monitoring you would  
3 require, you know, how often and where the monitor well  
4 should be located, things of that nature? Or have you  
5 just left it as a simple request for monitoring, and you  
6 will then evaluate it once it comes in?

7                   MR. BICKERTON: At this stage those  
8 particulars we haven't included, but we would like to  
9 participate in that component where we will have some  
10 recommendations on it.

11                  Once the final design and stuff is laid  
12 out, then, yes, we'd like to have some input on the  
13 frequencies, the locations and the parameters that are  
14 being monitored for.

15                  MR. HARPER: My last question, then, is  
16 with respect to the length of time that you're expecting  
17 the monitoring to occur, we've got a system set up in  
18 which there are solidification stabilization in the Tar  
19 Ponds, we've got some trenches and some groundwater  
20 control structures being set up in the Coke Oven site.

21                  The concern -- well, I'll ask you if you  
22 have any concern as to how long this monitoring should  
23 go, whether or not it should be stopped at a 25-year  
24 period after the operation is complete, or whether it  
25 should continue onward beyond that point.

1                           MR. BICKERTON: The answer as to how long  
2 it should continue is really dependent on what you  
3 observe in the period beforehand, but I would think it's  
4 safe to say that if monitoring has indicated there's  
5 still issues, the monitoring should continue. But if the  
6 monitoring has indicated to the contrary, then I think it  
7 would be appropriate to relax the monitoring  
8 requirements.

9                           I mean, I guess the short answer is it  
10 will depend on -- what is being observed during that  
11 period would to a certain degree dictate what your  
12 actions should be after that point.

13                           MR. HARPER: Thank you.

14                           THE CHAIRPERSON: Thank you. Mr. Brophy

15                           MR. BROPHY: Thank you, Madam Chair.

16                           My name is Eric Brophy, and my question is  
17 very simple.

18                           In the draft scoping document in the  
19 project description I find the term "baseline" used quite  
20 frequently. I'll give you an example, Project  
21 Description page 39, article 2, Environmental  
22 Description, a description that the existing environment  
23 is necessary for four reasons, the second one being "to  
24 provide a baseline for identifying environmental changes  
25 in the future."

1                   I would just like a brief explanation for  
2 the record of what the term "baseline", how it's  
3 interpreted by Environment Canada.

4                   THE CHAIRPERSON: As applied to --  
5 generally throughout the Environmental Impact Statement  
6 or some specific aspect you're particularly interested  
7 in?

8                   MR. BROPHY: I would like it for the  
9 record, because I intend to question Health Canada on  
10 that very term this afternoon.

11                  MR. ERNST: Well, the proponent could  
12 probably speak to this as adequately as I, but our  
13 understanding for environmental impact evaluations,  
14 baseline simply means the conditions that are present in  
15 whatever component of the environment you're interested  
16 in prior to the initiation of whatever activity it is you  
17 are initiating. So that's the whole intent of what is  
18 collected as characteristically baseline information.

19                  MR. BROPHY: I would take it, then, that a  
20 simple explanation would be a starting point?

21                  THE CHAIRPERSON: I'm sorry, could you ask  
22 ---

23                  MR. ERNST: Could you repeat the question,  
24 please?

25                  MR. BROPHY: I said I would take it, then,

1 following your explanation, that a simpler explanation  
2 might just be baseline is nothing more than a starting  
3 point?

4 MR. ERNST: That is correct.

5 MR. BROPHY: Thank you very much, Madam  
6 Chair.

7 THE CHAIRPERSON: Ms. Ouellette, and then  
8 we will take a break for lunch.

9 MS. OUELETTE: Hi, my name is Debbie  
10 Ouellette, a former Cedric Street resident, and my  
11 question is what is the difference between Environment  
12 Canada and the Department of Health?

13 MR. ABRAHAM: What is the difference?

14 MS. OUELETTE: What is the difference  
15 between the two departments, the Department of  
16 Environment and the Department of Health.

17 THE CHAIRPERSON: Do you mean in terms of  
18 their mandates?

19 MS. OUELLETTE: Yes. Like what's the  
20 difference between the two.

21 MR. ABRAHAM: Well, the Department of  
22 Environment is largely dealing with the environmental  
23 impacts, and the Department of Health on human impacts,  
24 human health impacts.

25 We work very closely together, obviously,

1                   in the areas of environmental protection. So, for  
2                   example, probably the best example would be the Canadian  
3                   Environmental Protection Act where there is a risk  
4                   assessment on impacts of a toxic substance, for example,  
5                   on the environment as well as on human health, and we  
6                   work together on that risk assessment.

7                   On the risk management, which is what you  
8                   do with it, that's where Environment Canada has the  
9                   legislative mandate. So that's probably as well as I can  
10                  do it. Perhaps Health will have a different perspective.

11                  MS. OUELLETTE: All I'm saying, I  
12                  understood that the Department of Environment are there  
13                  to protect the people, the soils, our waters, our  
14                  animals, the food that we eat, am I right?

15                  MR. ABRAHAM: I would -- in general, our  
16                  mandate includes the protection of the environment which  
17                  includes human health, but the specifics of who takes the  
18                  leadership role with respect to food would be another  
19                  agency, but we share those responsibilities, and I would  
20                  rather look at it as the Government of Canada is  
21                  responsible for all of the areas that you suggested, and  
22                  we work together within our mandates to ensure all of  
23                  those areas are covered.

24                  MS. OUELLETTE: So basically the  
25                  Department of Health and the Department of Environment

1 work together as a team.

2 MR. ABRAHAM: Absolutely. And the  
3 Canadian Environmental Act is the best example.

4 MS. OUELLETTE: And now I'll ask you my  
5 question.

6 Are Departments of Fisheries & Oceans --  
7 why are they allowing the owners of the Coke Ovens and  
8 Tar Ponds, who contaminated our fish and water in Sydney  
9 Harbour daily and for years, why are the owners not being  
10 charged heavy fines for doing so?

11 MR. ABRAHAM: Well, of course, I just  
12 arrived here today and my involvement, and our  
13 involvement, in this review is basically focusing on  
14 anticipated effects on the environment, and not  
15 necessarily dealing with the past, although the past is  
16 important.

17 The focus of the presentation I made today  
18 is basically on anticipation and not on an historical  
19 problem that we all shared over a long period of time.  
20 And certainly since the pollution was discovered,  
21 basically the efforts of our department was to clean up  
22 the site, and that's been the priority.

23 The enforcement aspects fall within our  
24 enforcement policy, and I guess looking forward, as I  
25 mentioned in my presentation, we will have an Enforcement

1                   Officer in place here in Sydney, and we will be ensuring  
2                   that the project moving forward falls within the  
3                   environmental regulations within the Fisheries Act, as an  
4                   example, that will be managed by or overseen by our  
5                   Compliance Officer here in Sydney.

6                   Maria, would you like to say anything  
7                   else?

8                   MS. DOBER: No, the only thing else that I  
9                   can add is that enforcement actions by our department are  
10                  done in accordance with our enforcement and compliance  
11                  policy, and I'm not an expert in that and can't speak to  
12                  that.

13                  THE CHAIRPERSON: Ms. Ouellette, do you  
14                  have a quick follow-up question?

15                  MS. OUELLETTE: Yes. My question was, and  
16                  it wasn't answered, I'm asking why are the owners not  
17                  being -- why are the owners of the Department of -- of  
18                  the Coke Ovens and Tar Ponds not charged heavy fines for  
19                  polluting our fish and waters as they are today? And I'm  
20                  pretty sure the Coke Ovens and Tar Ponds are still  
21                  polluting our waters as we speak.

22                  THE CHAIRPERSON: Do you have anything to  
23                  add to your previous answer?

24                  MR. ABRAHAM: Well, I really don't have  
25                  the background information to actually answer the

1 question why charges weren't laid if, indeed, they were  
2 justified. So I don't have that answer.

3 THE CHAIRPERSON: Okay.

4 MS. OUELLETTE: Just one quick one.

5 THE CHAIRPERSON: Very quick, please.

6 MS. OUELLETTE: Yeah. My concern is that  
7 if I had an oil tank and it leaked into Sydney Harbour,  
8 Environment Canada and the Department of Health, they  
9 would be at my door, and I would be liable to clean it  
10 up, or the same thing if it was my next door neighbour's  
11 property, and I would be charged heavy fines for doing  
12 so. Why do the same standards not apply to these owners  
13 of the Coke Ovens and Tar Ponds?

14 THE CHAIRPERSON: Well, thank you very  
15 much for your question and your points.

16 Before we break for lunch, I'm just going  
17 to touch base with the Sydney Tar Ponds Agency to see if  
18 there's anything that they wish to ask of Environment  
19 Canada, or any point of clarification. Or would you  
20 prefer to have lunch?

21 MR. POTTER: Was that a hint? We have no  
22 questions at this point in time. We would like, as we  
23 mentioned before, to come back with some follow-up  
24 information and we'll see when that perhaps can happen.

25 THE CHAIRPERSON: Thank you very much. It

1           is now just about five past 12:00, and we will resume at  
2       five past 1:00.

3           We will ask Health Canada to come forward  
4       and make their presentation, and we'll let you know what  
5       we're going to do about more questions from Environment  
6       Canada. Thank you very much to Environment Canada for  
7       your presentation and for answering the questions.

8           We'll see you again, I'm sure.

9           MR. ABRAHAM: Thank you very much.

10          --- Upon recessing at 12:06 p.m.

11          --- Upon resuming at 1:03 p.m.

12          THE CHAIRPERSON: Good afternoon, ladies  
13       and gentlemen. We will begin this afternoon's session  
14       now. We have presenting to us this afternoon -- we have  
15       Health Canada. I know that there were more questions  
16       that people have for Environment Canada. I just thought  
17       of one myself just a moment ago.

18          Anyway, if by any chance we do not take  
19       the full afternoon in asking questions of Health Canada,  
20       what I will do is ask Environment Canada to come back and  
21       we can resume.

22          In the event that we do not have that  
23       opportunity this afternoon, the Panel has agreed to add a  
24       session on Thursday, May 11th -- is that right, 4 and 7  
25       is 11 -- on Thursday, May 11th, at 9:00 p.m., and we will

1 ask Environment Canada to come back at that point and we  
2 will resume questioning.

3 So, I'd like to welcome our presenters  
4 from Health Canada, and it's all yours.

5 --- PRESENTATION BY HEALTH CANADA (MS. SHARON CHARD)

6 MS. CHARD: Thank you, Madam Chair. Good  
7 afternoon to the Panel Members and the ladies and  
8 gentlemen of the audience. My name is Sharon Chard, I'm  
9 the regional director of the Healthy Environments and  
10 Consumer Safety Branch of Health Canada in the Atlantic  
11 Region.

12 It is my pleasure to have the opportunity  
13 to provide members of the Panel and other stakeholders in  
14 the room with a general overview of Health Canada's  
15 mandate and role and our areas of expertise as they  
16 relate to the Environmental Impact Statement and a  
17 summary of our comments on the Environmental Impact  
18 Statement.

19 In addition, I am pleased to have with me  
20 today several of the key experts who participated in  
21 Health Canada's review and who also assisted in the  
22 preparation of the technical brief which we submitted to  
23 the Panel approximately 10 days ago.

24 The technical brief goes into more  
25 specific details regarding the areas that concern Health

1                   Canada, and while this presentation will be general in  
2                   nature I will touch on these concerns in later slides.

3                   Before commencing with the presentation,  
4                   please allow me a few moments to introduce the team with  
5                   me. To my right I have Nellie Roest, who's the regional  
6                   health risk assessor and toxicology expert. To her  
7                   right, or beside Nellie, I am pleased to introduce Cheryl  
8                   Lettner who is an expert in air quality. Farther down,  
9                   next to Cheryl, is Stephen Bly who's our acoustics  
10                  expert, and finally at the end Richard Carrier who is our  
11                  expert in drinking water.

12                  A little bit on our mandate and authority.  
13                  Health Canada is the federal department responsible for  
14                  helping Canadians maintain and improve their health while  
15                  respecting individual choices and circumstances.

16                  As the federal Department of Health,  
17                  Health Canada subscribes to the belief that human health  
18                  is influenced by the health of the environment. As such,  
19                  in reviewing the Environmental Impact Statement, we  
20                  closely examined the key components of the physical  
21                  environment and their relationship to health.

22                  In fulfilling our mandate, we ensure that  
23                  health services are available and accessible to First  
24                  Nations and the Inuit community, we also work closely  
25                  with other federal departments, as Environment Canada

1 mentioned this morning, but other federal departments as  
2 well, agencies and health stakeholders, to reduce health  
3 and safety risks to Canadians. In such areas as  
4 environmental health, for example, Health Canada provides  
5 advice upon request to the provinces and other federal  
6 departments.

7 The Federal Government also helps to fund  
8 the health care system and regulates delivery within the  
9 system through the Canada Health Act.

10 I think it is also very important to talk  
11 for a moment about the limitations of our role as a  
12 federal health department. As the third bullet on my  
13 slide indicates, provinces have the jurisdictional  
14 authority over the provision of health care services. In  
15 addition, they have the constitutional right to make laws  
16 regarding health care programs and services within their  
17 own region.

18 Therefore, provinces have the  
19 responsibility for such critical things as hospitals and  
20 the medical system in general and, further, provinces  
21 have primary responsibility for public health, which  
22 includes such things as disease outbreaks at the local  
23 and provincial level, immunization and ensuring health  
24 services are acceptable for all residents within their  
25 province.

1                           Health Canada was asked by the Panel to  
2 review the Environmental Impact Statement in our capacity  
3 as an expert department under sub-section 12(3) of the  
4 Canadian Environmental Assessment Act. As such, we  
5 provided independent advice and technical expertise in  
6 our review of the document.

7                           As an expert department having scientific  
8 expertise and technical information, Health Canada  
9 receives numerous requests to evaluate human health risk  
10 assessment and to participate in panels related to the  
11 Canadian Environmental Assessment Act and federal  
12 contaminated sites projects.

13                          As is always the case with our  
14 evaluations, our over-arching goal throughout this review  
15 process has been to ensure that the potential health  
16 impacts of this project are identified and mitigated to  
17 minimize risks to human health.

18                          The technical experts with me today, along  
19 with others, considered the potential environmental  
20 effects on human health of the proposed activities and  
21 provided advice, comments and recommendations to the  
22 Panel, and ultimately the project Proponent, for  
23 consideration.

24                          We will endeavour today to respond to all  
25 questions, but I may need to request additional time to

1 consult with the experts who could not be here today.

2                   In addition -- I just want to provide a  
3 little bit of a highlight. In addition, the team that's  
4 with me today will only be available in Sydney, as they  
5 have to return to Ottawa for tomorrow. However, I will  
6 undertake to have the responses to questions that may  
7 arise later in this process responded to as quickly as  
8 possible.

9                   For the purposes of our review we drew  
10 upon expertise from several key areas, environmental  
11 health for the general public, which included expertise  
12 in the areas of air quality, human health risk  
13 assessment, drinking water quality, local produce or  
14 country foods, noise and radiation.

15                   Additionally, we also examined workers'  
16 health relative to contaminated sites remediation  
17 activities. I would like to take a moment to elaborate  
18 on each area that we considered.

19                   In considering air quality we looked at  
20 such things as potential cumulative effects and  
21 appropriate monitoring of emissions during the  
22 remediation and incineration.

23                   In terms of drinking water quality we  
24 considered ground and surface water in the context of the  
25 Canadian Drinking Water Quality Guidelines.

1                   Local produce and country foods were also  
2                   an area of focus. Country foods are defined as foods not  
3                   purchased in a grocery store or retail outlet, such as  
4                   garden produce, wild berries and game.

5                   Our review of noise related to the  
6                   proposed project and examined the acoustic environment on  
7                   and off site during routine activities and specific  
8                   acoustic events. And, finally, radiation was also an  
9                   element contained in our review.

10                  A large portion of our efforts were  
11                  focused upon the human health risk assessment contained  
12                  within the Environmental Impact Statement in recognition  
13                  of their criticality for assisting government agencies  
14                  and scientists in identifying potential health impacts  
15                  and in developing strategies for reducing exposure  
16                  pathways.

17                  As a review team we considered the full  
18                  Environmental Impact Statement, but emphasis was placed  
19                  on the areas which related most directly to human health.

20                  Specifically for the Tar Ponds and Coke  
21                  Ovens Site we examined the construction during  
22                  remediation, for the Victoria Junction Site the operation  
23                  of the temporary incinerator was our main focus. The  
24                  other aspects of the Environmental Impact Statement such  
25                  as maintenance and monitoring on the Tar Ponds and Coke

1                   Ovens Site and the decommissioning of the temporary  
2                   incinerator was also considered.

3                   I would now like to take a few moments to  
4                   discuss the review process more specifically.

5                   Health Canada reviewed the Environmental  
6                   Impact Statement with the express purpose of confirming  
7                   the human health statements made by the Proponent in the  
8                   document. As such, it was important for us to focus on  
9                   the two human health risk assessments contained in the  
10                  document, as mentioned on the previous slide.

11                  As you are aware, a human health risk  
12                  assessment is a tool used to estimate whether or not a  
13                  chemical in air, water, soil or sediment might pose a  
14                  risk to human health, and, if so, under what  
15                  circumstances. Ultimately health risk assessments help  
16                  us ensure there are no significant health threats to the  
17                  public.

18                  Many of the questions raised by Health  
19                  Canada's team were satisfactorily addressed by the  
20                  Proponent. However, as my next slide will explain in  
21                  greater detail, from Health Canada's perspective there  
22                  remain outstanding issues related to air quality. These  
23                  outstanding issues were previously raised but have not  
24                  yet been fully resolved. For example, our conclusions  
25                  depend upon the resolution of these issues.

1                                  As previously indicated during Environment  
2 Canada's presentation, there are outstanding issues with  
3 regard to some of the input data used in the air  
4 monitoring -- or air modelling, excuse me, by the  
5 Proponent. Health Canada is dependent on the acceptance  
6 of the modelling results in order to confirm our  
7 conclusions from a health risk assessment perspective.

8                                  The action levels or acute numbers for  
9 benzene and naphthalene used by the Proponent in the  
10 Environmental Impact Statement are based on, or are  
11 similar to, levels from the US Department of Energy and  
12 American Industrial Hygiene Association. These numbers  
13 are to be used for emergency response scenarios,  
14 accidental releases and rare occurrences.

15                                While the intent in using these acute  
16 limits may have been to address rare peaks in exposure,  
17 we are concerned that the action levels could result in  
18 prolonged exposure to high levels. Given the projected  
19 duration of this project, a chronic period of time,  
20 Health Canada has issues with the use of these numbers  
21 for both benzene and naphthalene.

22                                Within the scope of this project  
23 cumulative effects are defined as effects which could  
24 occur as a result of the potential interaction between  
25 this project and other present or future projects.

1                   In order for Health Canada to confirm our  
2 conclusions with respect to cumulative effects, we would  
3 require the Proponent to provide information on the  
4 expected results of combining existing air quality with  
5 remediation and incineration along with effects on air  
6 quality from other issues.

7                   In other words, these three components  
8 must be blended together to better determine what, if  
9 any, cumulative effects might occur.

10                  Health Canada is generally comfortable  
11 with the mitigative measures outlined in the  
12 Environmental Impact Statement and would further  
13 recommend the Joint Review Panel require the Proponent to  
14 report such things as real time air quality exceedances.  
15 We are of the opinion that exceedances do occur. Both  
16 frequency and magnitude should be reported to provincial  
17 authorities and appropriate response plans should be in  
18 place. These recommendations are a critical link to our  
19 conclusions.

20                  It is the opinion of Health Canada that  
21 all issues raised in this presentation and in our  
22 technical brief may be addressed through the Joint Review  
23 Panel process and resolved through clarification,  
24 evaluation, appropriate planning and mitigation.

25                  Therefore, in summary, Health Canada

1 generally concurs with the conclusions related to human  
2 health in the EIS provided that the mitigative measures  
3 detailed in the document and included in our comments are  
4 utilized throughout the project and that the department's  
5 outstanding issues are appropriately addressed.

6 We feel the recommendations we have  
7 provided warrant the consideration of the Panel and the  
8 project Proponent. In addition, if requested, Health  
9 Canada will be pleased to assist the project Proponent in  
10 the development of monitoring programs.

11 With that summary, we would welcome the  
12 opportunity to respond to your questions, Madam Chair.

13 THE CHAIRPERSON: Thank you very much, Ms.  
14 Chard, for your presentation. My colleagues have some  
15 more detailed questions. I will just start off with one  
16 general question.

17 HEALTH CANADA

18 --- QUESTIONED BY THE JOINT REVIEW PANEL

19 THE CHAIRPERSON: When looking at human  
20 health risk assessment as a tool in the broader scope of  
21 environmental assessment, it seems to me it differs  
22 somewhat from other tools that might be used to predict  
23 outcomes inasmuch as the follow-up monitoring -- well,  
24 this is what I'd like you to help me with -- the follow-  
25 up monitoring is not -- if you're dealing with the

1 effects, say, of air emissions, you would be -- the  
2 follow-up monitoring would be probably mostly related to  
3 the actual air emissions that occur rather than to the  
4 health effects.

5 Is that true? When you're dealing with  
6 human health, is there any follow-up effects monitoring  
7 that you can do?

8 MS. CHARD: Madam Chair, I'll ask our  
9 health risk assessment specialist to answer that, Ms.  
10 Nellie Roest.

11 MS. ROEST: Can I ask the Chair to clarify  
12 what she means by "effects monitoring"?

13 THE CHAIRPERSON: If you have predictions  
14 of -- that releases of contaminants into a stream over  
15 the length of a project will be -- you know, will be at a  
16 certain level and the prediction is it will be at a low  
17 enough level that there will not be any significant  
18 effect on the biota there, it would be possible to  
19 develop an effects monitoring program. I mean, you can  
20 monitor the releases.

21 That would be a compliance kind of a --  
22 more performance monitoring, but you could also -- if you  
23 wanted to, you felt it necessary, you could devise a  
24 monitoring program that would -- at whatever, periodic  
25 intervals or something, that would actually examine the

1                   health of the fish.

2                   I'm not quite sure what -- so I guess I'm  
3                   asking just generally, is that sort of thing possible  
4                   with respect to human health?

5                   MS. ROEST: In terms of health of the fish  
6                   that's not our jurisdiction, but certainly in terms of  
7                   human health we had recommended in our technical brief  
8                   that there be an environmental monitoring program put  
9                   into place that would analyze four levels of various  
10                  contaminants in items such as fish, the water, and such.  
11                  So, it would be a bit more than just an air monitoring  
12                  program.

13                  THE CHAIRPERSON: Now, my use of the fish  
14                  was an example. I'm not saying that that would be your  
15                  responsibility.

16                  What I mean is that with -- if you're  
17                  dealing with activities and there are predictions with  
18                  respect to the resulting effects or lack of effects on  
19                  human health, I'm just struggling with whether it's, in  
20                  fact, in parallel to something where you could --  
21                  potentially the project could have effects on fish, it  
22                  could have effects on trees and so on. You can go and  
23                  look at the trees, you can go and look at the fish.

24                  What I'm trying to say is, is it possible,  
25                  in fact, to do long-term follow-up monitoring in which

1 you actually ascertain that there has been no impact on  
2 the health of the population? I am suggesting -- this is  
3 from a totally inexpert point of view -- that that might  
4 be difficult to impossible. So, I'm just -- that's what  
5 I'm asking.

6 MS. ROEST: In terms of disease  
7 surveillance and that type of thing, that would be a  
8 provincial jurisdiction. We have no jurisdiction in that  
9 area.

10 THE CHAIRPERSON: I mean, do you  
11 understand, though, my question? How can I put it to  
12 make it clearer? I'm not sure.

13 I just want to understand if there are any  
14 tools -- whether you wield them or somebody else wields  
15 them, are there any tools -- I think the Panel just needs  
16 to know. We're dealing with something different here,  
17 aren't we, when we're dealing with human health risk  
18 assessment and prediction? It's that it's a bit more  
19 difficult to know what the results are.

20 And so on a long term with health risk  
21 assessment studies, you know, for this project and other  
22 projects, it's harder to go back and track and say, well,  
23 you know, this was absolutely right with confidence  
24 because we could see no health effects.

25 MS. CHARD: Madam Chair, I see that Cheryl

1 Lettner has her microphone on. I'll ask her to respond.

2 MS. LETTNER: There are methods to assess  
3 health ---

4 THE CHAIRPERSON: Would you just come a  
5 little closer or bring it closer to you. You need to be  
6 about three inches.

7 MS. LETTNER: There are methods to assess  
8 health effects in the long term. Epidemiology studies  
9 can be conducted, there are such things as biomonitoring  
10 that you could take blood samples or urine samples from  
11 individuals that may have been affected and you can  
12 definitely conduct a health study under the proper  
13 jurisdiction. Those kind of things can be done.

14 THE CHAIRPERSON: Okay. Well, thank you.  
15 But you -- in this instance you have no recommendations  
16 that such things would need to be done?

17 MS. LETTNER: I think that in our  
18 recommendations we were keeping within our mandate and  
19 within our jurisdiction, so we didn't make those  
20 recommendations.

21 MS. CHARD: Madam Chair, if I could also  
22 respond on that. A lot of the monitoring that we  
23 recommend actually looks at exceedances and being able to  
24 take immediate action and having an action plan for any  
25 contaminants that may be out there either in the air

1 quality or water quality type of things.

2 So, it's a matter of having a plan in  
3 place that if you do detect any health impacts of the  
4 project as it is going forward that they actually address  
5 it at that moment in time and move forward on it.

11                            Anyway, I will turn that over to my  
12                            colleague now.

13 DR. LAPIERRE: Good afternoon. I guess a  
14 general question to start off with. What role has or is  
15 Health Canada playing in the establishing of the air  
16 monitoring stations?

17 MS. CHARD: Again, as I indicated during  
18 my presentation, Health Canada has an advisory role and  
19 we do make recommendations on that. I haven't -- I think  
20 one of the things that we did as an undertaking is  
21 indicate -- I'm sorry, am I -- okay -- that we did  
22 indicate that we -- as they are developing their  
23 environmental monitoring that we would be prepared to  
24 participate in taking a look at it.

25 DR. LAPIERRE: Have you participated in

1 the past?

2 MS. CHARD: On air monitoring? Yes, we  
3 have, in previous times with our involvement in the  
4 previous projects.

5 DR. LAPIERRE: Are you satisfied that your  
6 recommendations were implemented?

7 MS. CHARD: I think we've had exceedances  
8 reported, we've had fairly good reporting on that. The  
9 actual persons that took the activity on that was the  
10 provincial departments involved.

11 DR. LAPIERRE: Thank you. In Table 6.1-1  
12 of the EIS we are told that in 2010 the Canada-wide  
13 standard for PM2.5 will be 30 micrograms per cubic metre  
14 and that the averaging time period will be 24 hours, 98th  
15 percentile over three consecutive years. I guess the --  
16 I have a few questions relating to that.

17 The first one. Are there -- is there a  
18 corresponding criterion for PM10? And what do you -- I'd  
19 like to really understand that averaging period, what it  
20 really means. I think I have an understanding, but I'd  
21 like for you to explain it to me. And I guess could you  
22 also explain the relationship between TSPs, PM10s and  
23 PM2.5s, and then I have a few other questions.

24 MS. CHARD: Okay. I'll ask Cheryl Lettner  
25 to answer that.

1                   MS. LETTNER: There's no standard for PM10  
2 from the Federal Government, and that was a decision  
3 based on the fraction of particulate matter that we  
4 thought was most important, and that was PM2.5. So, the  
5 differences between TSP, PM10 and PM2.5 are based on the  
6 size of the particles.

7                   PM2.5 is 2.5 microns in diameter, PM10 10  
8 microns, and TSP is total suspended particulate matter.  
9 From a health perspective, PM2.5 is of most concern.

10                  And your question about the averaging  
11 times, it's the 98th percentile of all measured -- so  
12 each 24-hour period must be below 30 micrograms per metre  
13 cubed over a three-year -- any three-year period.

14                  DR. LAPIERRE: So, these all have 24-hour  
15 monitoring parameters, that's correct?

16                  MS. LETTNER: That's correct.

17                  DR. LAPIERRE: And you average them out  
18 over three years and you have to fall within the 98th  
19 percentile?

20                  MS. LETTNER: Correct.

21                  DR. LAPIERRE: Okay. How does -- how do  
22 these criteria -- or how does one use there criteria for  
23 monitoring projects where the community could be exposed  
24 to short-term exposure in particulate matter which is, I  
25 think, somewhat the case with this project? Because

1 three years is a longer time.

2 MS. LETTNER: Agreed. The Canada-wide  
3 standard of 30 micrograms per metre cubed is not a  
4 health-based standard, it's a technologically-feasible  
5 standard and the current science recognizes that there  
6 are probably health effects down to background levels of  
7 particulate matter. So, at this time there's no  
8 regulation that would -- there's no one-hour or one 24-  
9 hour period time standard that we could compare ambient  
10 concentrations to the standard.

11 But part of the Canada-wide standard for  
12 PM2.5 is also the principle called keeping clean airs  
13 clean and continuous improvement and it requires that you  
14 maintain as -- you minimize your ambient emissions as  
15 much as possible, to the extent possible, and that you  
16 keep the ambient environment as close to existing as  
17 possible, and that's also written into the standard but  
18 it's a non-numerical part of the Canada-wide standard for  
19 particulate matter, 2.5.

20 DR. LAPIERRE: You're not saying that  
21 there couldn't be any effects on a shorter one-hour  
22 basis?

23 MS. LETTNER: No. I agree there could be  
24 health effects at a shorter time period.

25 DR. LAPIERRE: Okay. Thank you. The next

1 question I would have relates to an issue that you have  
2 with the additional information. I think it relates to  
3 cumulative effects, particularly as it relates to the  
4 present air quality. I'd like to understand that  
5 statement.

6 Do you not have enough data on the present  
7 air quality within the area over -- I imagine what you're  
8 looking at is the assimilative capacity of the air shed  
9 over a period of time -- if not, you can tell me -- and I  
10 guess maybe data on when that air shed may not have any  
11 -- or, I guess, I could pose that question.

12 Is there a time when you think that the  
13 air shed does not have any capacity to assimilate any  
14 additional byproducts within the air shed? That could be  
15 maybe a period during the summertime when you have stale  
16 air staying over the area for some time. Can you explain  
17 what you mean by additional data?

18 MS. ROEST: That was one of my comments.  
19 In looking at the background air data that they used,  
20 from what I understand, they only looked at the years  
21 2003 to 2005. And they only looked at certain chemicals  
22 and as far as I know, the ambient air monitoring program  
23 covers quite a few more chemicals so we were unclear as  
24 to why they chose only certain chemicals on those dates.

25 DR. LAPIERRE: So you would like to see a

1 wider spectrum of chemicals assessed in the air quality  
2 data?

3 MS. ROEST: We would like to see a  
4 rationale for why those particular chemicals were chosen  
5 and others were not and why those dates were chosen.

6 DR. LAPIERRE: Do you have any concern at  
7 all with the air shed being fully loaded at certain times  
8 of the year and not having any capacity even for a short  
9 time to assimilate any additional chemicals.

10 MS. LETTNER: I don't think that was a  
11 concern of ours in our review. Our concern with  
12 cumulative effects was an understanding of what had been  
13 considered in the existing air shed and what projects --  
14 and other concurrent projects had been considered in what  
15 was called cumulative effects.

16 DR. LAPIERRE: And a final question is --  
17 and you may not be able to answer it but often times we  
18 do get health alerts for air quality. In the past years  
19 the data that you have looked at, have you seen for this  
20 area specific dates and times where health alert were  
21 issued on air quality? Or that could be a Provincial --  
22 something I might ask the Province tomorrow.

23 MS. LETTNER: That would be a good thing  
24 to do. We didn't review that in our assessment. We were  
25 only looking at the Environmental Assessment as it is.

1 DR. LAPIERRE: And did you find that -- I  
2 didn't look at that detail, but having your knowledge  
3 base it might just jump at you. Did you find any of that  
4 information in the EIS report?

5 MS. LETTNER: No, I did not.

6 MR. LAPIERRE: Thank you.

7 MR. CHARLES: Good afternoon. The EIS  
8 significance criteria for air quality states that -- this  
9 is in quotation marks -- "A significant adverse effect on  
10 air quality is one that involves predictable sustained or  
11 frequent..." and they give an example of frequent being  
12 ten times a year for 24 hour criteria. So "significant  
13 adverse effect on air quality is one that involves  
14 predictable sustained or frequent exceedances of any  
15 applicable regulatory criteria or objective." And I just  
16 wonder what Health Canada thinks of that particular  
17 definition, I guess you'd call it of a significant  
18 adverse effect.

19 MS. LETTNER: I would say that that sounds  
20 like a reasonable definition based on this project. For  
21 example, we just discussed the PM2.5 and you wouldn't be  
22 in exceedance of the standard unless you had exceeded the  
23 98 percentile over three years. So a significant adverse  
24 effect over a predicted -- or over a reference  
25 concentration just once we wouldn't consider a

1 significant effect but sustained frequency of ten to 100,  
2 I tend to think we would agree with that definition.

3 MR. CHARLES: What would you think  
4 predictable exceedance means?

5 MS. LETTNER: My understanding of  
6 predictable would -- predictable probably -- I would  
7 relate back to being not infrequent. These words  
8 together, this definition together, what would mean the  
9 most to me is the frequency of the exceedances. So I'm  
10 not sure that you could predict when your exceedances  
11 would be but frequency would be related back to  
12 predictable. If you were to see an effect more often,  
13 you might be able to predict that it would happen again.

14 MR. CHARLES: So it doesn't mean something  
15 similar to likely possible or probable, those kinds of  
16 words?

17 MS. LETTNER: Once again, I think likely  
18 possible or probable could be synonymous at times with  
19 all of these words considered together. I mean, if  
20 something is frequently occurring, it's probably likely  
21 probable -- it's likely probable that it would occur  
22 again and you could perhaps predict that if it's occurred  
23 several times it would occur again in the future.

24 MR. CHARLES: So it's not just -- I guess  
25 what I'm trying to get at is, does predictable when it's

1 used like this mean that on the basis of experience you  
2 can expect something like this to happen or is it just a  
3 theory? Just a hypothesis.

4 MS. LETTNER: I would agree with your  
5 first definition and further clarification would have to  
6 come from the Proponent, I guess.

7 MR. CHARLES: Okay. Thank you very much.  
8 All right. The second question is, in the response to  
9 Information Request 51, the Proponent indicated that the  
10 number of predicted exceedances of the 24 hour benzoate  
11 pyrene criteria at the worst case receptor location  
12 within the Whitney Pier neighbourhood was up to 14  
13 exceedances in a particular year which was year 5. Now  
14 would you consider that a significant adverse  
15 environmental effect?

16 MS. LETTNER: I think that's why Health  
17 Canada has recommended a rigorous monitoring program to  
18 ensure that those -- that any mitigation and minimization  
19 of benzoate pyrene could be averted.

20 MR. CHARLES: So it ---

21 MS. LETTNER: Yes.

22 MR. CHARLES: --- would be, in your view,  
23 a significant adverse effect?

24 MS. LETTNER: Yes.

25 MR. CHARLES: The same Information

1 Response indicates that -- or indicated that the only  
2 predicted exceedances from the proposed project activity  
3 are exceedance of the 24 criteria for benzoate pyrene,  
4 the 24 hour criteria for naphthalene and the 24 hour  
5 criteria for TSP. Just three, three items. But then if  
6 you read on, or if you look at the EIS at page 6-13,  
7 you'll find this statement:

8                   "Over the span of the entire project  
9                   a very few exceedances of the PM10  
10                  criteria are predicted to occur  
11                  twice, once in each of years four and  
12                  five in the north end neighbourhood  
13                  near Victoria Park Armoury. Ten  
14                  times, twice in each of the years  
15                  four through eight in the north  
16                  end neighbourhood near Ferry Street,  
17                  once in five years -- or in year  
18                  five, sorry, in the Victoria Road  
19                  neighbourhood and up to 14 times  
20                  six in each of the years nine and  
21                  ten in the Whitney Pier  
22                  neighbourhood."

23                  The quote goes on to say:  
24                  "These exceedances are not likely to  
25                  be perceptible an are not considered

1 to be significant effects on air  
2 quality."

The paragraph that follows that quote  
deals with PM2.5, particulate matter 2.5 and identifies  
predicted minor infrequent exceedances of the relevant  
air quality. I guess what we were stuck with and noticed  
was that the first portion of the report indicated there  
were only three things where you're going -- three types  
of materials where you're going to have exceedances and  
then they go on to explain that there are other  
exceedances as well and I just wondered if you had the  
same sort of reaction to this and this is important  
because they note that these other exceedances which are  
beyond the three that were mentioned are not likely to be  
perceptible or not considered to be significant.

16 MS. LETTNER: We did note in our review  
17 that the Proponent most often addressed the TSP, total  
18 suspended particulate instead of PM10 and PM2.5 and we do  
19 consider that a concern simply because from a health  
20 perspective the smaller fractions are -- should have a  
21 greater effect on human health. And those are definitely  
22 two of the substances that weren't considered in the  
23 cumulative effects assessment that we would like to see  
24 data for.

As far as exceedances go, if the

1 definition that they give is a frequency of ten to 100 is  
2 significant, then I think that's an inaccurate statement  
3 in the environmental assessment if they're PM10 and PM2.5  
4 exceedance is greater than that.

5 MR. CHARLES: And just in case there are  
6 people in the audience who don't grasp the significance  
7 between smaller particles and bigger particles, could you  
8 just indicate why the smaller particles of 2.5 are more  
9 dangerous to health than the tens?

10 MS. LETTNER: Sure. The smaller particles  
11 can get deeper into your lungs so they can affect your  
12 respiratory system more greatly. And they've also been  
13 shown that they can move further and affect other systems  
14 in your body, for example, your heart and cardiovascular  
15 system and the larger particles will be filtered out at  
16 the top of your respiratory system. So say by your nose  
17 and they won't get so far into your body.

18 MR. CHARLES: All right. Thank you very  
19 much.

20 THE CHAIRPERSON: Yesterday, Dr. LaPierre  
21 asked this question of Public Works and Government  
22 Services Canada and they said "Oh, no, ask that of Health  
23 Canada" so you're the lucky recipient of this question.  
24 But it's appropriate clearly because as you indicated in  
25 your presentation you have responsibilities with respect

1 to health in jurisdictions First Nations and Inuit  
2 peoples. If you -- and this relates to the Mi'kmaq  
3 Ecological Knowledge Study. Then Schedule B of the -- of  
4 this study there is a map which shows the area that the  
5 -- that was covered by the study in terms of identifying  
6 areas that were important to the Mi'kmaq people for --  
7 and for reasons, plants, tools, art resource sites and  
8 areas.

9 That's what they were mapping and that's a  
10 figure. And when we look at that we see that there is an  
11 area that's been identified that is, as far as we can  
12 tell, bordering the VJ site that is meant to be the place  
13 where the incinerator will be located. And this area has  
14 been identified as a plant/tool/art resources area. And  
15 I guess my question is did you see this and do you have  
16 some comments on the proximity of that area as identified  
17 in the -- in this -- the Mi'kmaq Ecological Knowledge  
18 Study and the overall assessment that's been done.

19 MS. CHARD: Madam Chair, yes we did see  
20 that. I had people within our First Nations and Inuit  
21 Health branch look at that for any concerns. We did  
22 recognize that the EIS did look at all receptors in and  
23 close to their particular sites. I can -- I'd take an  
24 undertaking to come back and have their opinion but they  
25 did not identify to me, personally, any concerns related

1 to the health impacts of that particular evaluation.

2 THE CHAIRPERSON: Well, I think just for  
3 completeness I will take that as an undertaking for the  
4 record that Health Canada is going to provide us with  
5 information on the results of that review of that issue.

6 [u] Well, relate to this, the same study, the study --  
7 the area boundary for this study only essentially  
8 encompassed the VJ site.

9 I mean it encompasses the Tar Ponds and  
10 the Coke Oven sites and it goes round the boundary of the  
11 study, in fact, just about. Goes around the edge of the  
12 VJ site. And it did not encompass the Phalen site, the  
13 significance of that being that the Phalen site has been  
14 identified as an alternative means of carrying out the  
15 project by the Proponents and therefore there is some  
16 environmental assessments obligations associated with  
17 that. So on the strength of that study I -- Health  
18 Canada is presumably unable to indicate whether you think  
19 there's any particular concerns regarding health and the  
20 First Nations peoples?

21 MS. CHARD: That's correct, Madam Chair.  
22 Well, we put it back, if that's of interest back to the  
23 Proponent to conduct that study with the community.

24 THE CHAIRPERSON: Okay, thank you. I  
25 think that's -- oh, no I have another question. Sorry.

1 Workers health and safety, could you -- or perhaps before  
2 I ask the question, maybe I don't have to ask the  
3 question, but could you remind me -- you did sort of  
4 address this, I think but what are your responsibilities  
5 with respect to workers health and safety?

6 MS. CHARD: I'll ask Nellie Roest to  
7 respond to that.

8 MS. ROEST: Worker health and safety would  
9 be a provincial jurisdiction. However in the risk  
10 assessments they did evaluate the human health risk to  
11 workers at the site without the proper protective  
12 equipment. And they did identify some risks for workers  
13 so as a result we did recommend that they ensure that  
14 workers wear personal protective equipment.

15 THE CHAIRPERSON: Do you have any  
16 obligations when work has been carried out or people are  
17 being employed on Federally owned properties?

18 MS. CHARD: That is another department of  
19 government. If you like, the Department of Labour,  
20 that's within the HRSD but we do provide guidance on the  
21 health effects if there's -- if we're requested to do  
22 that.

23 THE CHAIRPERSON: So that department would  
24 have jurisdiction over any activities that are taking  
25 place on Federally owned lands, is that right?

1                   MS. CHARD: It's my understanding that the  
2 Canada Labour Code does apply to workers on Federal  
3 lands. But I will verify that.

4                   THE CHAIRPERSON: Are you able to reflect  
5 on -- probably you won't want to -- are you able to  
6 reflect on the differences between the Canada Labour Code  
7 and Nova Scotia Provincial Labour Code? Are they  
8 significantly different or do we have to ask somebody  
9 else that question?

10                  MS. CHARD: Well, I think that you have  
11 the Nova Scotia Department of Environment and Labour  
12 doing a presentation. That may be more appropriately  
13 addressed with them.

14                  THE CHAIRPERSON: All right. Thank you.  
15 We'll do that. Well, thank you. I will now ask -- this  
16 morning, I will -- we'll move to questioning by other  
17 participants. And I will start off, I'll just ask the  
18 Sydney Tar Ponds Agency if at this point you've got  
19 something you'd like to say by way of clarification or  
20 you have questions for Health Canada.

21                  MR. POTTER: No questions at this point.  
22 We have a clarification. I'll ask Mr. Gillis to address  
23 the point.

24                  MR. GILLIS: With respect to the questions  
25 posed by Mr. Charles, with respect to -- particularly

1 information contained on pages 614 and -- 613 and 14, the  
2 predictions that are in here to deal with exceedances,  
3 there's a follow on paragraph which it's available, with  
4 appropriate mitigation the exceedances we see are  
5 virtually eliminated from the -- in the receiving  
6 atmosphere. And I'll ask Dr. Brian Magee to talk to  
7 another few of the points that were raised during your  
8 discussion if you wouldn't mind.

9 DR. MAGEE: Yes, I'd like to draw your  
10 attention, if you would allow me, to our response to IR-  
11 51 where the question about those exceedances discussed  
12 in that paragraph came up. And we noticed when we were  
13 responding to your information request that we had made  
14 an error, first of all, PM10 was an error. We corrected  
15 it in this response. It should be PSP.

16 But secondarily the ten to 100 or whatever  
17 those numbers were in that particular section were  
18 referring to a very close in on site location. They were  
19 not referring to off site exceedances. So if you would  
20 allow me just to read a quick couple of sentences here:

21 "The only predicted exceedances for  
22 the proposed project activities are  
23 exceedances of the 24 hour criterion  
24 for benzoate pyrene, naphthalene and  
25 TSP. The quantitative discussion of

1 benzoate pyrene exceedances in the  
2 EIS

3 is in error. The text states that  
4 there could be up to 32 exceedances  
5 in year 5 and 100 exceedances in  
6 years six through eight at Whitney  
7 Pier. These values refer to an  
8 on site work area, not the receptor  
9 locations within the Whitney Pier  
10 neighbourhood. Last two, the number  
11 of predicted exceedances of the 24  
12 hour benzoate pyrene criteria at the  
13 worst case receptor location in the  
14 neighbourhood are up to 14 in year  
15 5, ten to 11 each in years six  
16 through eight."

17 And those are the data that are then added  
18 to the response to IR-72 where we went further and added  
19 in the diesel exhaust and so forth and so on. So all of  
20 the numbers in the tables to the responses to the IRS are  
21 the correct tables.

22 MR. CHARLES: Thank you for that  
23 clarification. I'd just like to observe that to err is  
24 human.

25 DR. MAGEE: We made the error in the first

1 place, sir.

2 THE CHAIRPERSON: All right. I think we  
3 have enough time that I can now give ten minutes  
4 allotments to people for their questioning. Feel free to  
5 take less. Anyway, the -- I will ask again. Any -- do  
6 we have any Federal, Provincial or Municipal government  
7 representatives have a question for Health Canada  
8 present? I'm going to -- and do we have any additional  
9 registered participants this afternoon who have not been  
10 in attendance at any other time.

11 If you registered to make a presentation  
12 at some point but this is the first session you've been  
13 at? No. All right. Got my same list. So therefore I'm  
14 going to go backwards on the list. So I guess if you're  
15 in the middle you never change but I'll do something  
16 about that. So I don't -- is Mr. Christmas still here  
17 from Membertou? I don't believe so. So Mr. Ignasiak, do  
18 you have a question for Health Canada?

19 HEALTH CANADA

20 --- QUESTIONED BY THE PUBLIC:

21 MR. LES IGNASIAK: Madam Chair, if I did  
22 follow with the presentation and then the following  
23 discussion, my conclusion is that really the air quality  
24 is the key issue as far as this project is concerned. Is  
25 that reasonably correct?

1                   MS. CHARD: In our presentation, yes it  
2 is.

3                   MR. IGNASIAK: Thank you very much. Now I  
4 can ask a question. The project as proposed suggests one  
5 technology that according to United States Environmental  
6 Protection Agency, risk evaluation department, were  
7 released during the solidification, 90 percent of VOCs  
8 and in the next 30 days of curing were released the  
9 remaining nine to ten percent of VOCs. If we could  
10 replace this technology with an alternative that  
11 essentially has zero emissions would that help or would  
12 that make the things worse?

13                  THE CHAIRPERSON: I'm just going to  
14 interject here. You've cited a document or a conclusion.  
15 Is this something that has been -- that the panel has?  
16 Is it in your -- is it in anything that you have already  
17 filed with us?

18                  MR. IGNASIAK: Yes, Madam Chair, this is  
19 filed with you, yeah.

20                  THE CHAIRPERSON: Would you like to make  
21 it clear to Health Canada that you are referring to the  
22 proposed stabilization and solidification technology?

23                  MR. IGNASIAK: Yes, I didn't want to say  
24 that but in fact I'm referring to a stabilization  
25 technology. Solidification stabilization. That's

1 exactly what I'm referring to, yes.

2 MS. CHARD: Madam Chair, if I understand  
3 the question, you're asking for a comparison between two  
4 types of technology usage. What we did was evaluate what  
5 was in the Environmental Impact Statement and I don't  
6 believe that was there at the time so I'm not sure that I  
7 can answer that question.

8 THE CHAIRPERSON: I'm sorry, what was not  
9 in -- when -- the quotation that Mr. Ignasiak -- yeah, I  
10 was just going to ask Mr. Ignasiak. I think you need to  
11 give us exactly where this came from and just can you  
12 tell me a little bit more or put it on the record what  
13 you're quoting. You're quoting USEPA in what?

14 MR. IGNASIAK: I'm quoting US  
15 Environmental Protection Agency, risk evaluation  
16 department that did work on results of solidification  
17 stabilization and with respect to material that contains  
18 VOCs, volatile organic components. Based on the studies,  
19 they came to the conclusion that during the  
20 solidification up to 90 percent of all volatile organic  
21 components would be released to the atmosphere. And  
22 subsequently during the next up to 30 days of curing the  
23 remaining nine, ten percent will be released too. My  
24 question was, would that not be an indication that we  
25 should rather use the technology that will not be

1 characterized by such high release or will not eventually  
2 have releases?

3 THE CHAIRPERSON: Was this study in fact,  
4 cited in the EIS? Can you give me the title. Can you  
5 put that on the record. At the moment I just know that  
6 it's from USEPA.

7 MR. IGNASIAK: I -- the only thing I ---

8 THE CHAIRPERSON: I think we need a title  
9 and we need a date.

10 MR. IGNASIAK: If you allow me to provide  
11 this information after that because I don't have it with  
12 me.

13 THE CHAIRPERSON: Yes, I think we need to  
14 ---

15 MR. IGNASIAK: I certainly will provide  
16 you with it.

17 THE CHAIRPERSON: You're now asking Health  
18 Canada to comment on something that was in a document in  
19 a report they haven't seen. I'm somewhat uneasy at  
20 asking them to do that. You understand that, I'm sure.

21 MR. IGNASIAK: Yeah, I fully understand it  
22 and I will comply with this request that I provide  
23 specific reference to that.

24 THE CHAIRPERSON: Do you have another  
25 question?

1                   MR. IGNASIAK: Yes, I do have another  
2 question on very similar subject. And again, it's a  
3 problem of air quality which is the key issue here. And  
4 I believe that if I sense correctly that the incineration  
5 is one of the potential problems here. Is that correct?  
6 When we are talking about really particulate emissions  
7 2.5 microns.

8                   Well, there are other technologies  
9 available. Some alternative technologies that would  
10 really not require -- that would really -- would not  
11 require application of incineration. Therefore if we do  
12 not have to incinerate this material in Cape Breton or  
13 specifically near Sydney, then we don't have a problem  
14 with any gaseous emissions from incineration and we don't  
15 have a problem with particulate emissions.

16                  MS. LETTNER: In our review of the  
17 incineration, we agreed with the conclusions of the  
18 environmental assessment that there were no health impact  
19 to the residents around the area.

20                  MR. IGNASIAK: Well, if I understood  
21 correctly, a question was raised here about the impact of  
22 particulates below 2.5 microns, and there was specific  
23 answer to Dr. Charles question. So there probably, based  
24 on my best understanding, there is a problem here, isn't  
25 it.

1                   MS. LETTNER: Right. The emissions of  
2 particulate matter were at the remediation site, not at  
3 the incineration site.

4                   MR. IGNASIAK: I see. I see. And this  
5 were coming from what?

6                   MS. LETTNER: From -- I can't tell you in  
7 particular but I would assume from the traffic and from  
8 the dredging ---

9                   MR. IGNASIAK: Oh, from the traffic okay.  
10 Because certainly they could not come from the sediment  
11 because the sediment is wet.

12                  MS. LETTNER: Agreed.

13                  MR. IGNASIAK: Thank you very much.

14                  THE CHAIRPERSON: Thank you, Mr. Ignasiak.

15                  MS. CHARD: Madam Chair, could I just make  
16 one statement that it was our assumption that all -- and  
17 has been that all technologies have been proven safe and  
18 effective that have been part of the Environmental Impact  
19 Statement. And therefore, I'm not sure if the question  
20 really was about comparison of other technologies there  
21 but we did not address that at the time.

22                  THE CHAIRPERSON: Thank you for that  
23 clarification. Sierra Club.

24                  HEALTH CANADA

25                  --- QUESTIONED BY THE PUBLIC

1                           MR. BRUNO MARCOCCCHIO: Thank you, Madam  
2 Chair. Does Health Canada agree that the chamber studies  
3 on adults exposed to concentrated ambient air particulate  
4 matter, that is PM2.5, two hour exposures, showing  
5 effects on heart rate variability can be used to develop  
6 real time ambient air quality guidelines for short term  
7 acute exposures to PM2.5 for the proposed project?

8                           MS. CHARD: Madam Chair, I'm not sure what  
9 the reference is to but I don't remember that we  
10 actually, actually saw that study as part of the  
11 Environmental Impact Statement.

12                          THE CHAIRPERSON: Actually, I'm just going  
13 to ask the practical matter, can you just swing the  
14 microphone just a little closer to you. I found that a  
15 -- just the head of the microphone -- I found it a little  
16 bit hard to hear you then, Mr. Marcocchio. You heard the  
17 question, did you? Okay and ---

18                          MR. MARCOCCCHIO: We can -- there are  
19 dozens of these studies and we would be glad to provide  
20 you with specific references to them and perhaps you  
21 could respond in an undertaking to the question.

22                          THE CHAIRPERSON: I'm sorry. Can we start  
23 so that I understand because -- what was the study --  
24 could you just start again and a little louder, a little  
25 slower for ---

1                   MR. MARCOCCHIO: Okay.

2                   THE CHAIRPERSON: Thank you.

3                   MR. MARCOCCHIO: The question is, does  
4 Health Canada agree that chamber studies on adults  
5 exposed to concentrated ambient particulate matter, PM2.5  
6 two hour exposures showing effects on heart rate  
7 variability can be used to develop real time ambient air  
8 quality guidelines for short term acute exposures to PM  
9 2.5 for the proposed project?

10                  THE CHAIRPERSON: What was the study that  
11 you said?

12                  MR. MARCOCCHIO: They're chamber studies  
13 where adults are in a room in a chamber are exposed to  
14 particulate for lengths of time and the -- and their  
15 heart rates are measured for responses to various  
16 particulate ---

17                  THE CHAIRPERSON: So these are types of  
18 studies. And are these studies ones that were cited or  
19 referred to in the EIS?

20                  MR. MARCOCCHIO: No, but we would be glad  
21 to provide a listing of those studies that provide a  
22 useful and well established tool for measuring impact of  
23 particulate matter on human health.

24                  THE CHAIRPERSON: Just as a general rule,  
25 I think it's difficult for the panel and probably

1 difficult for the presenters being questioned -- this  
2 refers to Mr. Ignasiak as well, when they're being asked  
3 about other studies. But I understand, you're asking  
4 about a generic type of study. I do appreciate that.

5 MR. MARCOCCHIO: Yes.

6 THE CHAIRPERSON: Anyway, I will ask  
7 Health Canada, you -- do you wish to make a comment at  
8 this stage or do you need more information?

9 MS. LETTNER: I'm familiar with the type  
10 of studies that you're discussing. But Health Canada  
11 wouldn't develop -- we don't develop guidelines based on  
12 one study or one study type. It's a lengthy process and  
13 all ambient air guidelines are provincial jurisdiction.  
14 They often adopt what the Federal Government has put  
15 forward. But it's under provincial jurisdiction. So we  
16 wouldn't develop any monitoring guideline based on a  
17 single study or a single type of study.

18 MR. MARCOCCHIO: So you don't think that  
19 this would be an appropriate tool to implement to gauge  
20 the impacts and to set reasonable limits on particulate  
21 emissions?

22 MS. LETTNER: No.

23 MR. MARCOCCHIO: Thank you. Can you  
24 please provide the panel with Health Canada's knowledge  
25 that contamination of the Coke Ovens and the Tar Ponds is

1 continuous off site into the residential communities  
2 above CCME soil quality guidelines, specifically as  
3 illustrated in the Health Canada individual property  
4 reports conducted in the Nelco area, north end of Sydney  
5 and Ashby and that in some cases this contamination is  
6 present in the sumps and basements of homes?

7 MS. LETTNER: I'm not sure what the  
8 question is.

9 THE CHAIRPERSON: Yes, I'm sorry, I'm not  
10 quarrelling with your question but I -- it's not getting  
11 in to my head so you're going to have to do it slower and  
12 then perhaps there'll be a question of clarification and  
13 we can get that.

14 MR. MARCOCCHIO: Perhaps I can make it a  
15 little clearer. There were a number of risk assessments  
16 done on individual homes, on homes continuous with the  
17 Coke Ovens and Tar Ponds property conducted by Health  
18 Canada. There were individual risk assessment reports  
19 that documented the continuous nature of the  
20 contamination from the site into these communities.

21 And I think it's germane to considering  
22 the impacts and the extent of remediation impacts on the  
23 community to use as a guideline. The extent of the  
24 continuous emissions that we now know to exist in soils  
25 and in sumps and basements throughout the community.

1           Perhaps Health Canada would like to put those risk  
2           assessments on the public record.

3                         THE CHAIRPERSON: And the continuous --  
4                         it's the continuous that I'm not grasping. Continuous  
5                         effects coming off the properties in their current state,  
6                         is that what you're saying? Or ---

7                         MR. MARCOCCHIO: Yes, the properties are  
8                         adjacent the contamination around the Coke Ovens and Tar  
9                         Ponds. And the levels of contaminants clearly show that  
10                         the emissions are continuous from the site into these  
11                         residential properties. In some cases they have resulted  
12                         in remediation of a particular homes in the Nelco area in  
13                         particular and in the north end of Sydney on  
14                         Intercolonial Street and in other places.

15                         THE CHAIRPERSON: But what does continuous  
16                         mean, that's what I'm struggling with. Continuous  
17                         meaning over time or continuous -- what does that word  
18                         mean?

19                         MR. MARCOCCHIO: No, spacially continuous.  
20                         From the contamination in ---

21                         THE CHAIRPERSON: So you can spot  
22                         contamination here and then all the way back the trail  
23                         back to ---

24                         MR. MARCOCCHIO: yes.

25                         THE CHAIRPERSON: --- that's the

1 assertion?

2 MR. MARCOCCCHIO: Yes.

3 THE CHAIRPERSON: Are you now -- I'm a  
4 little clearer. Are you ---

5 MS. CHARD: Madam Chair, could I just ask  
6 for clarification. We -- I don't see any of those  
7 reports cited within the Environmental Impact Statement  
8 and we actually did the risk assessments and information  
9 on human -- the risk assessment process within the  
10 project as it exists and was -- I'm not sure where the  
11 question is going on this.

12 THE CHAIRPERSON: Would you like to give  
13 us some clarification, the connection from this question  
14 to the assessment of the project as it stands. That  
15 would just help us understand. It would help Health  
16 Canada to understand the question and maybe respond to  
17 it.

18 MR. MARCOCCCHIO: I'm not quite sure I  
19 understand the question, the link between the ---

20 THE CHAIRPERSON: To make the connection  
21 between the question that you're asking ---

22 MR. MARCOCCCHIO: Yes.

23 THE CHAIRPERSON: --- and the project  
24 that's -- that we're reviewing. I mean how does the ---

25 MR. MARCOCCCHIO: Oh, I thought I -- I'm

1 sorry, I thought that -- I'll try again. The continuous  
2 nature of the contamination from the properties under  
3 remediation and the adjacent communities getting some  
4 indication of the impacts in the past and will clearly  
5 give some indication of the potential for impact during  
6 remediation activities in these adjacent properties that  
7 these risk assessments have been done by Health Canada  
8 and perhaps should be put on the public record.

9 THE CHAIRPERSON: All right. Now I'm with  
10 you. And the dates of these health assessments. You  
11 know which health assessments have been referred to?

12 MS. CHARD: Madam Chair, I guess my  
13 confusion in this is that we basically -- and the people  
14 that I have with me reviewed what was in -- contained  
15 within the scope and within the project that we're  
16 looking at today. I think those are other projects that  
17 were done a number of years ago and my experts and --  
18 neither I or my experts have detailed knowledge of that.  
19 So I guess I'm just wondering at the appropriateness of  
20 the question.

21 MR. MARCOCCCHIO: The contamination in this  
22 community shows that there has been a movement of  
23 contaminants from the site into those homes. And there  
24 is currently no plans for any barriers during the  
25 remediation to that ongoing movement in contamination

1                   into the community. So it speaks to the need for  
2 developing remedial measures to effectively prevent the  
3 ongoing migration into the adjacent properties.

4                   THE CHAIRPERSON: Health Canada, how would  
5 you respond to that please and then we'll ---

6                   MS. CHARD: I guess I will have to ---

7                   THE CHAIRPERSON: --- figure out what  
8 we're going to do.

9                   MS. CHARD: --- go back and look at the  
10 Environmental Impact Statement. I don't recall that we  
11 had any kind of explanation within the human health risk  
12 assessment in the process that we looked at that was  
13 talking about the off site contamination but maybe I  
14 could put that back to the Proponent but otherwise I  
15 would have to take that as going back into the  
16 Environmental Impact Statement to look at it.

17                  THE CHAIRPERSON: Well, I'm not -- right  
18 now, I'm certainly not prepared to ask you to make a --  
19 whether you're willing to make an undertaking with  
20 respect to this. I would like to confer with my  
21 colleagues before we take this further. I'm going to  
22 make a note and I will do that and then I will -- we will  
23 get back to you on that. Do you have ---

24                  MR. MARCOCCHIO: I have another short  
25 question.

1                           THE CHAIRPERSON: -- an additional  
2 question?

3                           MR. MARCOCCHIO: Yes. Does Health Canada  
4 have any concerns with respect to the siting of the  
5 incinerator and do you feel that the current CCME  
6 guidelines, that is 1,500 metres from residential  
7 dwellings should be applied for this project to be  
8 protective of human health.

9                           MS. LETTNER: In our review of the EIS  
10 once again agree with the conclusions that there were no  
11 risks to human health. The receptors around the  
12 incineration site and it's -- that was what our job was  
13 here, was to review the health impact not the siting of  
14 the incinerator. We saw no health effects and we agreed  
15 with the conclusions of the EIS.

16                          MR. MARCOCCHIO: Thank you.

17                          THE CHAIRPERSON: Thank you, Mr.  
18 Marcocchio.

19                          MR. POTTER: Madam Chair, if I might for a  
20 moment.

21                          THE CHAIRPERSON: Is it a point of  
22 clarification?

23                          MR. POTTER: Yes.

24                          THE CHAIRPERSON: Just to clarify, I  
25 believe the assumption that the witness is suggesting is

1           that there's documentation of off site migration to  
2         residential neighbourhoods. Just to be clear, the EIS  
3         report does not state that.

4                           THE CHAIRPERSON: Thank you. We will be  
5         considering your question and we will get back to you on  
6         that. Mr. Marmon, do you have a question?

7                           HEALTH CANADA

8                           --- QUESTIONED BY THE PUBLIC

9                           MR. RON MARMON: In the conclusion that  
10         the incinerator would have no health effects on the  
11         people living around it. Was there any estimate of the  
12         number of upset conditions that might occur at the  
13         incinerator that would put anything above the guidelines?

14                           MS. LETTNER: In the Environmental Impact  
15         Statement the Proponent did do an upset condition and  
16         when we reviewed that we saw no health effects with the  
17         situation presented.

18                           MR. MARMON: Would you be concerned in the  
19         number of upset conditions? Was there anything in EIS  
20         that would more or less give you some definition of what  
21         could be expected in the number of upset conditions in  
22         the run of a year let's say?

23                           MS. LETTNER: Well, I can't give you any  
24         indication of what I saw for the number of upset  
25         conditions and just to point out that there will be a

1 program in place to ensure that the incinerator is  
2 operating it must meet code and to address it that way  
3 which is not under the jurisdiction of Health Canada.

4 MR. MARMON: I understand that and like we  
5 do have some question on what codes are going to be  
6 followed. And that's why there was some mention by the  
7 previous questioner on what the 1,500 metre distance but  
8 what we, as a community, have a problem with, is we  
9 understand that in theory incineration is a very good  
10 method of destroying, we think. We have no examples of  
11 here is the incinerator that's going to be put there,  
12 here is an what you can expect in upset conditions. Here  
13 is the number that you might expect during here and we  
14 really don't follow how Health Canada can say that you  
15 don't see a problem with this incinerator causing a  
16 health problem in the area if you don't really know  
17 yourself what type of incinerator or what problems can be  
18 expected.

19 MS. LETTNER: I completely understand  
20 where you're coming from and I think that that follows  
21 from what Environment Canada said earlier today that they  
22 would like to have the numbers remodelled once all of the  
23 design is complete and that follows also a caveat that  
24 Health Canada has that if those numbers change we would  
25 like the health numbers remodelled because we don't know

1 right now what the design criteria are.

2 MR. MARMON: Okay. Thank you, Madam  
3 Chair.

4 THE CHAIRPERSON: Thank you. Cape Breton  
5 Save Our Health Care Committee.

6 HEALTH CANADA

7 --- QUESTIONED BY THE PUBLIC

8 MS. MARY RUTH MACLELLAN: Having looked  
9 around the room, I think I'd like to tell you this  
10 morning as I drove in here I felt fairly well. When I  
11 rounded the corner and drove up the street by the train  
12 -- old train station, up Dorchester and George, I  
13 immediately got a headache when I detected a real bad  
14 odour in the air. When that happens to me I'm a person  
15 with very sensitive system to toxins. When that happens  
16 it triggers PCBs in my heart and I've been feeling really  
17 bad today but I'm wondering on the incinerator site  
18 itself if that's turned over to the province where does  
19 Health Canada fit in?

20 MS. CHARD: I think, Madam Chair, in my  
21 presentation we did indicate that Health Canada does  
22 offer scientific expertise and advice upon request and a  
23 number of times we have been requested by provincial and  
24 municipal governments if they have a question on health  
25 impacts. I ---

1 MS. MACLELLAN: So ---

2 MS. CHARD: I don't know at this moment  
3 whether we will be requested to provide that kind of  
4 assessment but we have in the past in other situations.

5 MS. MACLELLAN: So what you're saying is  
6 you will be there to advise only if asked by the  
7 department of Nova Scotia's Department of Health.

8 MS. CHARD: In the area of human health  
9 risk assessment and health impacts, yes, if requested.

10 MS. MACLELLAN: Only if requested? But  
11 you did say you were responsible for drinking water,  
12 correct?

13 MS. CHARD: I will turn to Richard.

14 MR. CARRIER: Your question related to  
15 drinking water?

16 MS. MACLELLAN: Yes, in response -- you  
17 will still -- no matter if the site is owned by the  
18 province or the feds you will still be responsible for  
19 drinking water?

20 MR. CARRIER: In Canada drinking water is  
21 considered as a natural resource so it's a domain of  
22 provincial jurisdiction but we, Health Canada, work in  
23 collaboration with the provinces to establish drinking  
24 water guidelines so yes, we work in collaboration with  
25 provinces and territories but we don't have the

1 jurisdiction to intervene.

2 MS. MACLELLAN: So you won't have the  
3 jurisdiction to monitor Kilkenny Lake which is New  
4 Waterford's drinking source water once it's turned over  
5 to the Province?

6 MR. CARRIER: I'm not familiar with this  
7 change of ownership between -- are you talking about land  
8 that will be transferred to ---

9 MS. MACLELLAN: We've heard during the  
10 testimonies here or the presentations that they are  
11 looking for the Federal government to turn the Victoria  
12 Junction site which includes Kilkenny Lake which is New  
13 Waterford's drinking water source over to the provincial  
14 government.

15 MS. CHARD: It is my understanding that  
16 the -- this Kilkenny Lake is a source of drinking water  
17 at the present moment, or am I incorrect?

18 MS. MACLELLAN: That's correct.

19 MS. CHARD: Can I just mention that the --  
20 as the source of drinking water it's under provincial  
21 jurisdiction as we speak and the municipality. Health  
22 Canada does, as Richard mentioned, develop in conjunction  
23 with the provinces and territories, the Canadian Drinking  
24 Water Guidelines. The implementation and enforcement of  
25 those guidelines are within the provincial jurisdiction.

1 MS. MACLELLAN: So in other words you  
2 won't be monitoring it on an ongoing basis to see that --  
3 we've already heard testimony here that there will be  
4 days when the atmospheric conditions are so that there  
5 will be fallout from the stacks from the incinerator that  
6 more than likely, depending on the wind conditions will  
7 fall into Kilkenny Lake.

8 THE CHAIRPERSON: I think we've had the  
9 answer to your question about who ---

10 MS. MACLELLAN: So it will be the province  
11 ---

12 THE CHAIRPERSON: Excuse me. We've had  
13 the -- Health Canada has answered that question that it  
14 does fall within the province's mandate and you will have  
15 a chance to ask the province that question.

16 MS. CHARD: Madam Chair, can I be very,  
17 very clear that the monitoring of any of the drinking  
18 water as we speak today, with or without the project is  
19 under provincial and municipal jurisdiction.

THE CHAIRPERSON: Thank you.

MS. MACLELLAN: You said before that you  
-- once -- you're there to advise the province if it's  
turned over to the Federal government but you do have  
jurisdiction over the Inuits and the Mi'kmaq population?

25 MS. CHARD: Looking at the health effects

1 of the communities, the First Nations and Inuit health  
2 communities in this region, yes.

3 MS. MACLELLAN: Are there any kind of  
4 guarantees or reassurances that you can give us that if  
5 there is a problem here that Health Canada will come in  
6 and help us as a community with our problems -- our  
7 accumulative effects that will make us sick? Where will  
8 Health Canada fit in the picture in that? How can you  
9 reverse health effects?

10 MS. CHARD: Well, I guess one of the --  
11 the information that we have done has indicated about the  
12 -- our concerns with the air quality, the cumulative  
13 effects, and there are information gaps at the present  
14 time and that we would look for further details from the  
15 Proponent as to their monitoring situation.

16 I'm not sure that I understood how we went  
17 from First Nations and Inuit health to the community,  
18 coming in and doing things in the community. I need  
19 clarification on that.

20 MS. MACLELLAN: Well, there are at least  
21 two First Nations communities in Cape Breton County, and  
22 as I see it the accumulative effects, especially with  
23 fallout from incinerators, will travel and they will  
24 affect the Inuit communities or the Mi'kmaq communities  
25 as well as our own communities, and there are a lot of

1 people with Mi'kmaq status or Mi'kmaq blood in them that  
2 don't live on the Mi'kmaq Reserves.

3 So, are you still responsible for them?

4 MS. CHARD: Within the role and mandate of  
5 Health Canada, the area of our First Nations and Inuit  
6 health is on-Reserve, are responsibilities for the health  
7 of on-Reserve -- the on-Reserve community of the First  
8 Nations and Inuit health.

9 The other area that I would just want to  
10 comment on is that my understanding from the  
11 Environmental Impact Statement is that they looked at all  
12 human receptors when they were doing their health hazard  
13 -- or health risk assessment, and that would have  
14 included the population living in close proximity to the  
15 various areas as they were doing the risk assessment.

16 So, I do assume from that -- but I'd go  
17 back to the Proponent -- that the communities of the two  
18 First Nations in close proximity would have been  
19 consulted.

20 MS. MACLELLAN: What I'm looking for --  
21 and probably you probably can't give it to me -- is I  
22 want to know if there were any kind of guarantees or  
23 assurances that if there were problems with the  
24 monitoring or any follow-up -- for example, a few years  
25 ago a number of children tested positive for high toxin

1           levels in their blood, there were never any follow-up  
2           phone calls, visits or anything.

3                         Some of these children were toddlers and  
4           today suffer from the ill effects of it, some have speech  
5           impediments and some have coordination difficulties, and  
6           nobody has yet to follow up with those children. Thank  
7           you.

8                         THE CHAIRPERSON: Thank you, Ms.  
9                         MacLellan. I think I'm just going to ask the Proponent  
10                  if at this stage you have any clarification, anything you  
11                  wish to say, and, if not, I'm going to suggest we take a  
12                  break.

13                         MR. POTTER: A break sounds good.

14                         THE CHAIRPERSON: Thank you very much. I  
15                  will ask you to come back after the break. Sorry. I may  
16                  just see -- provide an additional opportunity for  
17                  questions from other participants, probably a shorter  
18                  round, and if we don't have very many I may then ask if  
19                  Environment Canada would come back for the balance of the  
20                  afternoon. But who knows, you may be there for the rest  
21                  of the afternoon.

22                         So, thank you very much. It is now -- we  
23                  will return at quarter to 3:00.

24                         --- RECESS: 2:25 p.m

25                         --- RESUME: 2:49 p.m.

1                   THE CHAIRPERSON: I'd like to resume the  
2 session, please. I'd like to begin. I wonder if Mr.  
3 Marcocchio would be willing to come back to the mike just  
4 so that we can address his question. Thank you.

5                   I just want to let people know that Sierra  
6 Club has provided us with a one and a quarter page  
7 document in response to an undertaking that you undertook  
8 yesterday, is that right?

9                   MR. MARCOCCHIO: Yes, that's right.

10                  THE CHAIRPERSON: Yes. And the  
11 undertaking provides some further information regarding  
12 Sierra Club's -- some of the questions and points that  
13 you're raising with respect to contamination in the areas  
14 outside the project boundary. I'd just for -- and thank  
15 you very much for this. So, this will now go on the  
16 public registry.

17                  So, I -- on the basis of this, I need -- I  
18 just want to ask again a clarification of what it is that  
19 you were asking Health Canada, and then we'll ask Health  
20 Canada about that.

21                  But I'd just like to read for people just  
22 one part of this information that you've provided, and  
23 you make a reference here to the fact that -- the  
24 beginning of the paragraph says:

25                   "There are also additional reports

1                   and knowledge of contamination off  
2                   site."

3                   You provided -- earlier you provided some  
4                   quotations, you cite some references from within the EIS  
5                   relative to this issue.

6                   "There are also additional reports  
7                   and knowledge of contamination off  
8                   site."

9                   And then you refer:

10                  "Health Canada produced several  
11                  'individual property reports' in 2001  
12                  which showed contamination in the  
13                  soils, ground water, sumps and  
14                  product in basements. Health Canada  
15                  has said that the contaminants off  
16                  site in other areas, aside from NOCO,  
17                  is similar to that found in the NOCO  
18                  area..."

19                  And then there's a reference, "MacDonald,  
20                  2003."

21                  "Some of these results were also  
22                  published in Lambert and Lane, 2004."

23                  My understanding was that you were asking  
24                  Health Canada to provide to the Panel -- was it these  
25                  reports that you were referring to?

1                           MR. MARCOCCHIO: Yes, the risk assessments  
2 done on homes -- some of them were on homes, some of them  
3 were on vacant or public land, if you will, some of which  
4 were remediated in NOCO, and I think it's entirely  
5 appropriate and germane that those be on the record so  
6 that we can understand the nature of the continuous  
7 contamination from the site into the adjacent homes so  
8 that we can address the issue of putting -- at minimum,  
9 address the issue of putting remediation measures in  
10 place to limit or contain that ongoing process during  
11 remediation.

12                          THE CHAIRPERSON: Well, I think the Panel  
13 looks forward to you presenting us with more information  
14 on this topic when you make your presentation, but right  
15 now I just want to understand.

16                          You were asking Health Canada if they  
17 would make an undertaking to provide these reports.

18                          MR. MARCOCCHIO: Yes.

19                          THE CHAIRPERSON: You have these reports.

20                          MR. MARCOCCHIO: We have some of them and  
21 we're willing to make them available, but it would be  
22 good to have Health Canada put them all on the public  
23 record, including the ones on public lands.

24                          THE CHAIRPERSON: Well, I will ask Health  
25 Canada now if that's clear, as to what the question is,

1 and please give your response, and then depending what  
2 your response is the Panel will decide where to proceed  
3 from there.

4 MS. CHARD: Madam Chair, I guess I need  
5 clarification as to the scope of this undertaking, the  
6 Panel and the Environmental Impact Statement, as we were  
7 looking at and dealing with the project as outlined at  
8 the present time and going into the future, and that was  
9 what our risk assessment and human health impact  
10 assessment was based on.

11 So, I am not sure. Are we going back into  
12 history, long term, if it was not included in their  
13 baseline data for the environmental impact? So, I guess  
14 I just need some clarification as to where we're going  
15 with this.

16 THE CHAIRPERSON: Mr. Marcocchio, very  
17 briefly, if you want to say a couple more things about  
18 this, then we will just confer for a moment.

19 MR. MARCOCHIO: Yes. I'm working from  
20 memory here, but I'm just referring to the section of the  
21 guidelines, the EIS Guidelines, that direct the Proponent  
22 to gauge all of the impacts from remediation activity on  
23 the surrounding areas, that is to say that the adjacent  
24 homes and the impacts on those adjacent homes are  
25 directly within the scope and mandate of the

1                   Environmental Impact Assessment according to the  
2                   guidelines.

3                   THE CHAIRPERSON: Just a moment, please.

4                   The Panel is going to take a moment to confer about this.

5                   I do feel a little foolish wheeling around  
6                   in these chairs, but you were very polite and you didn't  
7                   laugh when we all rolled off. Part of the difficulty is  
8                   not doing it unintentionally.

9                   Mr. Marcocchio, we've just conferred about  
10                  this and this is -- we're not at this time going to ask  
11                  Health Canada to produce those materials. You are very  
12                  welcome to put anything you like on the public record.

13                  And what I'm going to ask you to do is  
14                  during Sierra Club's presentation to us -- and you do  
15                  have quite a bit of time jointly to make presentation --  
16                  if you would be very -- would like to address this issue  
17                  and be very clear in your argument around the connection  
18                  that you are drawing about information about any putative  
19                  contamination off site and how this relates to the  
20                  Panel's mandate.

21                  So, if you could do that during your  
22                  presentation, then we will revisit this issue.

23                  MR. MARCOCCHIO: Thank you very much.

24                  THE CHAIRPERSON: Thank you. I had a  
25                  sense that there were a lot of questions built up for

1 Environment Canada, so if at all possible -- it's now 5  
2 to 3:00 -- I would like to bring them back for a while  
3 this afternoon.

4 But what I'm going to do is I'm going to  
5 ask -- I'm going to provide an opportunity for one more  
6 round of one question -- just one, please -- from the  
7 participants to Health Canada to make sure that we give  
8 some fair opportunities here.

9 And I would say in a general sense that  
10 obviously we do have time constraints on everything we  
11 do, and so sometimes we move on and you might still have  
12 a question that you wanted to place, and if you do then  
13 please provide that question in writing to the Panel and  
14 we will forward it and try to get an answer, get it into  
15 the record. So, there are other opportunities.

16 So, I'm just going to ask are any  
17 registered presenters in the room -- if anybody -- if you  
18 could show me by a show of hands if there is anybody who  
19 has -- would like to come back with one question each.

20 I've got Dr. Argo, Ms. Ouellette. Nobody  
21 else? And Mr. Brophy. I've got three. Dr. Argo?

22 --- QUESTIONED BY THE PUBLIC

23 DR. JIM ARGO: Thank you, Madam Chair. Am  
24 I speaking in the right direction?

25 THE CHAIRPERSON: That's the direction --

1 yes, as long as we can hear you, that's the most  
2 important thing.

3 DR. ARGO: This morning I asked a question  
4 to Environment Canada about Canada-wide standards which  
5 they administer. I'm going to ask the same question to  
6 Health Canada because there's a health component to this.

7 The Canada-wide standard for dioxin is 80  
8 picogram toxic equivalents per cubic -- yeah, per cubic  
9 metre. This is the amount that the Proponent will be  
10 allowed to release in terms of dioxins and furans from  
11 the incineration.

12 Dioxins and furans have been identified by  
13 IARC, the International Agency for Research in Chemistry  
14 -- in Cancer, as carcinogenic. Carcinogenic chemicals  
15 have no minimum concentration that they -- any  
16 concentration is considered toxic.

17 My question then is, what is the risk that  
18 is presented by releasing 80 picogram/TEQ of dioxin per  
19 cubic metre which is allowed under the CCME, Canada-wide  
20 standards, and which, by the way, is not risk-based?  
21 It's an agreement. What is the risk that that poses to a  
22 person breathing that in, breathing it in?

23 MS. CHARD: Madam Chair, I'll ask Cheryl  
24 to answer that question.

25 MS. LETTNER: I can't give you an answer

1 on what the risk of 80 picograms per metre cubed is, but  
2 I can tell you that in the EIS there were health-based  
3 numbers because, as you said, the Canada-wide standard  
4 isn't a risk-based number, but health-based numbers  
5 developed by the World Health Organization and by the US  
6 EPA were used in the EIS, and when those numbers were  
7 used, which we agreed with in our assessment, there were  
8 no health risks identified.

9 DR. ARGO: Then what is the risk for a  
10 cancer posed to a person that is breathing -- that is  
11 ingesting and breathing that?

12 MS. LETTNER: The EIS considered both non-  
13 cancer and ---

14 DR. ARGO: No, I'm just talking about --  
15 in this case I'm talking about a cancer. Though you're  
16 quite right, dioxins have non-carcinogenic end points.

17 MS. LETTNER: Um-hmm. The cancer end  
18 point was also addressed in the environmental assessment  
19 and the risk levels were within the acceptable range and,  
20 therefore, there are no health effects that were  
21 identified by Health Canada.

22 DR. ARGO: Okay. I'll leave it at that.

23 THE CHAIRPERSON: Thank you, Dr. Argo.

24 Ms. Ouelette?

25 --- QUESTIONED BY THE PUBLIC

1                   MS. DEBBIE OUELETTE: In the EIS health  
2 risks were identified for workers not wearing the  
3 appropriate personal protective equipment during  
4 remediation activities at the Tar Ponds and Coke Ovens  
5 Sites, right?

6                   What were the risks to residents within  
7 metres away? Can you identify the risks that were there  
8 for the workers that were not wearing protective  
9 equipment?

10                  THE CHAIRPERSON: If you could -- it's the  
11 same point I pointed out to Dr. Argo. If you could speak  
12 ---

13                  MS. OUELETTE: I'm sorry.

14                  THE CHAIRPERSON: --- directly into the  
15 mike, then we can all hear a bit better.

16                  MS. OUELETTE: It states in the EIS health  
17 risks were identified for the workers not wearing  
18 appropriate personal protective equipment during  
19 remediation activities at the Tar Ponds and Coke Ovens  
20 Site. Can you tell me what them risks were?

21                  MS. ROEST: In our review of the EIS, the  
22 Proponent had looked at the risk to workers, and just to  
23 clarify, this would be workers on the site who would be  
24 exposed, for example, to the excavated sediment, they  
25 would be ingesting the sediment, they'd be eating it,

1                   they're not wearing personal protective clothing, so it  
2                   would be getting on their skin and they're right there by  
3                   the excavation, so they would be exposed to much higher  
4                   levels than the residents would be in the risk  
5                   assessment.

6                   In addition, for the risk assessment to  
7                   the area residents they looked at the inhalation pathway  
8                   only.

9                   MS. OUELETTE: No, my question was, in the  
10                  EIS health risks were identified. What were the health  
11                  risks? What were their health risks?

12                  MS. ROEST: I'd have to look at the EIS,  
13                  but they identified risks from various chemicals. I  
14                  can't tell you off the top of my head exactly what they  
15                  were, but these would be risks that exceeded a cancer  
16                  risk of 1 in 100,000 or a hazard quotient of .2.

17                  MS. OUELETTE: You're not getting my  
18                  question, I'm sorry, but I just want ---

19                  THE CHAIRPERSON: Excuse me, Ms. Ouelette.  
20                  I think you're asking questions about content in the EIS  
21                  which would probably be -- you may have the answer. I  
22                  suspect you do. I suspect ---

23                  MS. OUELETTE: I don't, and that's the --  
24                  the reason is I don't ---

25                  THE CHAIRPERSON: You haven't found this

1                   in the EIS?

2                   MS. OUELETTE: No.

3                   THE CHAIRPERSON: Well, then I think  
4                   probably that the question is, in the first place, more  
5                   appropriately directed to the people who produced the EIS  
6                   to answer your question.

7                   MS. OUELETTE: This is in their  
8                   presentation that they have there. They have it on their  
9                   site from Health Canada.

10                  THE CHAIRPERSON: Health Canada's  
11                  presentation that they gave to us today?

12                  MS. OUELETTE: It's on the site. That's  
13                  where I got that, and that's why I'm just -- I want to  
14                  make it clarified. They state that the health risks were  
15                  identified for workers not -- what were the health risks  
16                  for workers not wearing protective personal equipment  
17                  during the activities of the Tar Ponds and Coke Ovens? I  
18                  just want to know what they were.

19                  THE CHAIRPERSON: I see, yes. Could we  
20                  find this on -- in the presentation, what page? That  
21                  would be helpful. Do you happen to know?

22                  MS. OUELETTE: It was on their site, it  
23                  just said "Issues" on page 5.

24                  THE CHAIRPERSON: Did you -- is this on  
25                  your website?

1                   MS. CHARD: I think it's in the technical  
2 report and as we submitted it to the Panel it would have  
3 been on the Panel website as part of our report. It's in  
4 the technical report on that, and I think ---

5                   THE CHAIRPERSON: But it was submitted as  
6 part of the public comments?

7                   MS. CHARD: Part of the public comments.

8                   THE CHAIRPERSON: Yes. All right. Now  
9 we're getting there. So, perhaps -- I have a list of  
10 public comments. It would help to put the number on  
11 this. Would this be Public Comment 24, February 15th?

12                  I just needed some help here. I now know  
13 what we're talking about, yes.

14                  MS. OUELETTE: Sorry.

15                  THE CHAIRPERSON: I don't have it in front  
16 of me but you are -- you now know -- we're all talking  
17 about the same thing.

18                  MS. CHARD: Yes. I thought we had given  
19 you a copy of our technical report, but if not ---

20                  THE CHAIRPERSON: No, I just -- I don't  
21 have it in front of me right at this second.

22                  MS. CHARD: Okay. Okay.

23                  MS. OUELETTE: Sorry I have to repeat the  
24 question, but I just want the answer, that's all.

25                  THE CHAIRPERSON: Well -- so now we know

1           -- I know where you're citing this. Are you -- Health  
2           Canada, are you able to shed some light or make an  
3           undertaking to provide anything?

4                         MS. ROEST: I think, if I understand her  
5                         question correctly, you're trying to understand what type  
6                         of health effects are related with these health risks?

7                         MS. OUELETTE: I'm going to read the  
8                         question one more time. It said in the EIS health risks  
9                         were identified for workers not wearing appropriate  
10                        personal protective equipment during remediation  
11                        activities at the Tar Ponds and Coke Ovens Site.

12                        What were the health risks? What were  
13                        identified? Did they have headaches? Did they have to  
14                        leave the site because they were sick? Were they  
15                        fatigued? Were they dizzy? Did they faint? What were  
16                        the ---

17                         MS. ROEST: The health risks are dependent  
18                         on each individual chemical that was assessed, and off  
19                         the top of my head I can't outline exactly what that  
20                         would be. The Proponent may be better suited to answer  
21                         that question.

22                         THE CHAIRPERSON: I take it that you were  
23                         quoting -- you were referring to information that was in  
24                         the EIS regarding -- I'm going to turn that to the  
25                         Proponent, and if you would like to provide a little bit

1 of information to see if you can answer Ms. Ouelette's  
2 question, please.

3 MR. POTTER: I'll ask Dr. Magee to address  
4 that question.

5 DR. MAGEE: Yes, I'd be happy to. Thank  
6 you very much. The non-cancer effects are driven  
7 primarily by the presence of naphthalene. Now, we don't  
8 know what that would truly do to humans, but based on the  
9 animal data the end point is nasal effects, it's  
10 metaplasia and dysplasia of the cells, changes in the  
11 structure of the cells of the nasal membranes would be  
12 what is predicted, and the cancer risk is driven by  
13 exposure levels to benzoate pyrene which is one of the  
14 polycyclic aromatic hydrocarbons.

15 There it's a little trickier because the  
16 animals get tumours of the fore stomach and humans do not  
17 have fore stomachs, so we're not predicting that humans  
18 will get fore stomach tumours, but we just assumed that  
19 if the animals got tumours in any organ that the humans  
20 might also get a tumour in some organ or another.

21 THE CHAIRPERSON: Yes. Ms. Ouelette, now  
22 my understanding of your question was that if there was a  
23 prediction that there could be health effects on workers  
24 if they were not wearing protective clothing ---

25 MS. OUELETTE: Absolutely.

1                   THE CHAIRPERSON: --- but your question is  
2 residents living very close to the site ---

3                   MS. OUELETTE: Would have the same  
4 effects, is what I'm trying to say.

5                   THE CHAIRPERSON: --- could they have the  
6 same effects? I'm going to -- the question is -- we are  
7 in a questioning of Health Canada. I'm just going to go  
8 back one more time to Health Canada to see if you have  
9 any more comments that you want to make with respect to  
10 Ms. Ouelette's concern.

11                  MS. ROEST: Again, I think there has to be  
12 a distinction made here between the exposure pathways  
13 that were looked at in the risk assessment for the area  
14 residents as compared to the workers.

15                  Again, the workers would be -- they were  
16 assuming they weren't wearing any protective equipment  
17 but, you know, they would -- their arms would be exposed  
18 to the sediment, it would be all over their arms and  
19 their legs, they would be -- some of it would get into  
20 their mouths, they would be right there where the  
21 volatiles would be at their highest and breathing that.  
22 So, their risk would be higher than for a resident living  
23 some distance away who would not have those same type of  
24 exposures.

25                  THE CHAIRPERSON: Ms. Ouelette, I know

1 you've -- I'm sure you've got more to say on this issue,  
2 so I -- the issue is registered and I'm going to ask you  
3 to pursue it when you make your presentation, and I'm  
4 sure there'll be some more questioning back and forth.  
5 So, thank you.

6 MS. OUELETTE: Another statement that they  
7 made ---

8 THE CHAIRPERSON: I was saying one  
9 question.

10 MS. OUELETTE: Oh, can I just say this one  
11 since that one took so long for them to understand?

12 THE CHAIRPERSON: Yes, quickly, please. I  
13 have to say that pathos won't work me every time, so  
14 don't all think that you can try that but ---

15 MS. OUELETTE: They also made a statement  
16 that no human health risks were identified for area  
17 residents as a result of an operation of a temporary  
18 incinerator.

19 Now, my question is, can you tell me when  
20 this temporary incinerator was operating, where and for  
21 how long?

22 THE CHAIRPERSON: I'm sorry, what are you  
23 quoting? You're quoting again. You're quoting from ---

24 MS. OUELETTE: I'm quoting from their ---  
25 THE CHAIRPERSON: Okay.

1                   MS. ROEST: This is based on the  
2 assumptions in the EIS which, if my memory serves me  
3 well, was they looked at both the VG Site and the Phalen  
4 Site and the incinerator was assumed to be operating 365  
5 days a year for five years.

6                   MS. OUELETTE: The question was, no human  
7 health risks were identified for area residents as a  
8 result of an operation of a temporary incinerator.

9                   Now, my question is, can you tell me when  
10 this temporary incinerator was operating, where and how  
11 long for?

12                  THE CHAIRPERSON: I'm assuming this  
13 statement refers to the predictions for the project, it's  
14 not to an existing. Okay?

15                  MS. OUELETTE: Oh, I thought -- that's how  
16 I understood it.

17                  THE CHAIRPERSON: Okay? That's how I  
18 would hear that.

19                  MS. OUELETTE: Okay.

20                  THE CHAIRPERSON: All right. Thank you  
21 very much, Ms. Ouelette.

22                  MS. OUELETTE: Thank you.

23                  THE CHAIRPERSON: Mr. Brophy? And then we  
24 will take a brief break and we'll bring back Environment  
25 Canada.

1           --- QUESTIONED BY THE PUBLIC

2                           MR. ERIC BROPHY: Thank you, Madam Chair  
3 and Panel. My question is going to relate to the  
4 environment -- the EIS Guidelines as it pertains to human  
5 health.

6                           Health Canada, do you have a copy of those  
7 that you can refer to? And I'll refer you to Article 9-  
8 4, "Human Health." Do you have that?

9                           MS. CHARD: Mr. Brophy, just to make sure  
10 that I'm clear, that's in the Environmental Impact  
11 Statement Guidelines ---

12                          MR. BROPHY: It is.

13                          MS. CHARD: --- for the environmental  
14 assessment? And I don't see a 9.4, I see a 9.3.

15                          THE CHAIRPERSON: It's there. It's the  
16 way it's printed.

17                          MS. CHARD: Oh? Okay.

18                          THE CHAIRPERSON: I just had that problem.

19                          MS. CHARD: We have it.

20                          MR. BROPHY: I will read that for  
21 edification of those in attendance here.

22                          "Assess health of residents of the  
23 areas affected by the project, employ  
24 appropriate qualitative and  
25 quantitative indicators regarding

1                   elements of health that may be  
2                   affected by the project to create  
3                   baseline data..."

4                   And I emphasize "to create baseline date."

5                   The reason for that emphasis, Madam Chair,  
6                   I think this morning we established through questioning  
7                   Environment Canada of what we mean by "baseline."

8                   In my questioning to the Tar Ponds Agency  
9                   Dr. Magee's response to my question whether this  
10                  guideline was adhered to -- his response was yes, they  
11                  did two health risk assessments.

12                  Health Canada is here as an expert  
13                  advisory to this project. In that capacity as experts I  
14                  would ask -- they do have the knowledge that there is a  
15                  very distinct difference between a health risk assessment  
16                  and a health assessment.

17                  So, my question to them is, has this  
18                  guideline been complied with?

19                  MS. CHARD: I'd have to go back and just  
20                  look at the EIS. We'd have to see that. I don't know  
21                  that the -- you can -- Cheryl will answer.

22                  MS. LETTNER: I just wanted -- you will  
23                  probably have to go back to the EIS, but I -- for air,  
24                  existing air quality was included. There was a specific  
25                  IR response that the Panel asked in the second round, but

1 I can't speak to other media.

2 MR. BROPHY: If I may clarify what my  
3 intention is, my intention is here to state that a health  
4 risk assessment is very distinct from a health  
5 assessment.

6 A health assessment is what ATSDR in the  
7 United States does when they look at contaminated sites.  
8 That health assessment does provide a tool to assess the  
9 health of the residents and it is also the tool that can  
10 assess whether anything from remediation efforts that  
11 would be ongoing on those sites may affect the residents.

12 It is my contention that this is what this  
13 guideline calls for, a health assessment, not a risk  
14 assessment. Risk assessments are carried out, as Dr.  
15 Magee acknowledged, only to assess potential health  
16 risks, it is not there to do a health assessment. That  
17 is what a public health assessment does.

18 I would further add that when I was a  
19 member of the Health Studies Working Group that was what  
20 we wanted to do, we were working with Health Canada in  
21 the hopes of carrying out a public health assessment.

22 We were sidelined when Health Canada told  
23 us, "Well, just a minute, we're not going to follow the  
24 ATSDR Guidance Manual, what we are doing in Ottawa is we  
25 are developing a 'Sydney Model', a model that could be

1 used for contaminated sites right across this country."

2 THE CHAIRPERSON: Mr. Brophy, I'm going to  
3 interrupt you ---

4 MR. BROPHY: Having said that ---

5 THE CHAIRPERSON: Mr. Brophy, I'm going to  
6 interrupt you for a moment, because I think you're  
7 turning your question into a presentation. I know you  
8 will be making a presentation to us. I don't object to  
9 having some context applied around a question. I think  
10 we've got your context to it.

11 I'm not sure that -- I think we have an --  
12 do we have an undertaking from Health Canada that you're  
13 going to look at and give your opinion on whether the  
14 baseline health information that was presented in the  
15 EIS, in your opinion, meets the guideline and is adequate  
16 to use as -- to assess health impacts?

17 And, Mr. Brophy, if you wanted to add  
18 anything to that question -- but I will have to ask you  
19 to carry on with your line of argument and statements --  
20 and, believe me, the Panel wants to hear it, but I need  
21 you to do that during your presentation. This is a  
22 questioning phase.

23 MR. BROPHY: Okay. Then I do have another  
24 question, Madam Chair ---

25 THE CHAIRPERSON: Well, I ---

1                   MR. BROPHY: --- if you would permit me  
2 just one last question.

3                   THE CHAIRPERSON: Oh, yes, by all means.

4                   MR. BROPHY: In response to Elizabeth May  
5 questioning a risk assessment, Dr. Magee replied -- and  
6 I'm reading this from an article in the newspaper:

7                   "First I would like to clarify that I  
8 am personally not aware that there  
9 are vulnerable adults that are any  
10 more vulnerable in this community  
11 than in any other. I would take that  
12 as a premise but I cannot testify to  
13 that being the case or not."

14                  That health assessment I talked about  
15 would have provided Dr. Magee information that he could  
16 clearly indicate that. And I thank you very much, Madam  
17 Chair, and at the end of the day it will be the Panel's  
18 responsibility to see if that guideline has been adhered  
19 to. And I thank you once again.

20                  THE CHAIRPERSON: Thank you, Mr. Brophy.  
21 I believe now that I have taken the questions I was going  
22 to take, and I've taken more questions but that's okay  
23 occasionally. And so I ---

24                  MR. POTTER: Excuse me, Madam Chair.

25                  THE CHAIRPERSON: Oh? Sorry, I don't see

1           -- yes, do you have a follow-up question or a  
2       clarification?

3                            MR. POTTER: It's just a clarification  
4       before Health Canada leaves just regarding the  
5       uncertainty regarding the incinerator emissions.

6                            The emission rates used in the EIS will  
7       form the basis for any tendering for the eventual  
8       incinerator. Suppliers that do provide the incinerator  
9       will have to ensure that that incinerator does meet those  
10      criteria. I just wanted to clarify that point.

11                          THE CHAIRPERSON: Thank you. Thank you  
12      very much to Health Canada for your presentation and for  
13      answering questions. I'm now going to -- we'll take a  
14      five-minute break while Environment Canada comes back and  
15      we'll resume questioning for the balance of the  
16      afternoon.

17                          --- RECESS: 3:22 p.m.

18                          --- RESUME: 3:28 p.m.

19                          THE CHAIRPERSON: I would ask that we  
20      begin the session again, please. What I'm going to  
21      propose is I will just check with the Proponent at the  
22      moment.

23                          If you have -- with respect to Environment  
24      Canada, if you have questions or any statements of  
25      clarification, I will give you another opportunity, and

1           then after that I am going to just get -- find out who  
2        has questions for Environment Canada and then I will --  
3        depending on the number, I will sort of give a time  
4        allotment.

5           These days are long and if it's possible  
6        for us to break at 4:30 I will try to do that. So, first  
7        of all, I will go to the Sydney Tar Ponds Agency. At  
8        this point do you have something you wish to say or ask?

9           MR. POTTER: Nothing at this point, Madam  
10       Chair.

11           THE CHAIRPERSON: Can I ask in terms of  
12        registered participants how many of you would like to  
13        pose additional questions to Environment Canada?

14           I see Sierra Club, I see the Save Our  
15        Health Care, that's two. All right. I will provide you  
16        with a maximum of 15 minutes each for your questions,  
17        which is -- oh, and to Mr. Harper. Oh, I'm sorry. Yes,  
18        that's what I was getting to.

19           So, additional members of the public, I  
20        have Mr. Harper. Anybody else in the room? So, we have  
21        three people with questions. I have four people -- Ms.  
22        Kane -- with questions. Four? Well, I'm going to say  
23        four at 10 minutes each and we'll see where that takes  
24        us.

25           Okay. I'm going to start with --

1                   arbitrarily with Ms. MacLellan of Save Our Health Care.

2                   ENVIRONMENT CANADA AND GOVERNMENT SERVICES

3                   --- QUESTIONED BY THE PUBLIC

4                   MS. MARY RUTH MACLELLAN: Thank you. I am  
5                   feeling better. I'm kind of like the canary in a coal  
6                   mine when it comes to toxins. If I fall over, you'll  
7                   know to evacuate. And rest assured if the canary Mary is  
8                   dead, Ruth, the voice of reason, will come back as a  
9                   conscience.

10                  THE CHAIRPERSON: That's right. As long  
11                  as you're not the frog in the freezer. That was a ---

12                  MS. MACLELLAN: My first question to  
13                  Environment Canada is about the monolith and the seawall  
14                  that is supposed to protect the monolith.

15                  I'm wondering about the changes in the  
16                  high tides and the high tide marks and the heavy storm  
17                  surges that we've seen more and more in the last few  
18                  years and the erosion that has -- as I said before to  
19                  Transport -- Public Works, it even took a part of the  
20                  causeway away. Well, it even uncovered a 17th century  
21                  wall in Louisbourg.

22                  How is that going to affect the monolith?

23                  MS. DOBER: My understanding from speaking  
24                  to some of our experts who are not here today but who  
25                  have reviewed the document in terms of effects that the

1 environment may have on the project is that they did not  
2 identify any issues within the EIS that they thought  
3 needed to be addressed any further.

4 MS. MACLELLAN: So, they -- like have they  
5 taken in the fact that the weather patterns are changing  
6 and we're getting more storms more frequently and that  
7 our storm surges are at times five metres high? Will the  
8 seawall to protect the monolith be five metres high, or  
9 how high will it be?

10 MS. DOBER: In terms of design details  
11 that is really in the realm of the Proponent to provide  
12 that information.

13 With respect to our assessment of the  
14 Environmental Impact Statement, our specialists were from  
15 the Meteorological Service of Canada and also from our  
16 climate change group, and as I said, they did not  
17 identify any concerns with respect to how that issue was  
18 addressed within the document.

19 THE CHAIRPERSON: Thank you.

20 MS. MACLELLAN: Thank you.

21 THE CHAIRPERSON: Do you have another  
22 question?

23 MS. MACLELLAN: Yes, just two short ones.  
24 You said that there was no leaching into the harbour at  
25 the moment this morning from the -- Muggah Creek?

1                   MS. DOBER: I think the way I phrased it  
2                   is the contaminants are not generally migrating, they're  
3                   attached to sediment particles.

4                   MS. MACLELLAN: If you walk along the  
5                   coast from the edge out here on down through towards  
6                   South Bar there's a tarry slick coming out of the bank  
7                   and out of the rocks and going into the ocean. Do you  
8                   know what that is?

9                   MR. ERNST: I don't think we could say  
10                  specifically what a slick was at this time, but just for  
11                  clarification, I mean, there is currently a flux of  
12                  contaminants coming from Muggah Creek that relates to the  
13                  discharge from the Tar Ponds.

14                  MS. MACLELLAN: So, that tarry slick  
15                  that's coming out of the rocks that are embedded in the  
16                  edge of the water, the bank as we would call it when we  
17                  were kids -- you call it bedrock, we used to call it  
18                  shale rock -- is possibly coming from Muggah Creek, then?

19                  MR. ERNST: We have no knowledge or  
20                  evidence of the fact that there's some discharge coming  
21                  out from the bank.

22                  MS. MACLELLAN: Have you walked that  
23                  coastline recently?

24                  MR. ERNST: I personally haven't walked  
25                  it, no.

1                   MS. MACLELLAN: Perhaps then you could  
2 investigate. I think it's important to know whether it's  
3 leaching into the harbour or not. The other question ---

4                   THE CHAIRPERSON: I think if you require  
5 Environment Canada to look at something you would need to  
6 provide them with very precise information. Perhaps you  
7 could do that at the -- before you leave this afternoon,  
8 as to where they should go.

9                   MS. MACLELLAN: Yeah. Well, it's just  
10 somewhere between here and South Bar. I can't tell you  
11 the exact -- without walking the coastline myself, you  
12 know, and pointing it out. It's in there, or out there.

13                  The other question is, there's been some  
14 questions about the SYSCO site that was last used for the  
15 steel plant and whether or not Environment Canada looked  
16 at the linkage between the Muggah Creek and the most  
17 recently closed SYSCO site and the Coke Ovens.

18                  Was there an environmental assessment  
19 carried out to see if -- like to my knowledge one impacts  
20 the other, because it's the same -- virtually the same  
21 land.

22                  MS. DOBER: My understanding is that  
23 there's work ongoing at SYSCO which we are not privy to,  
24 it's not something that our department was involved in.

25                  As part of the environmental site

1 assessments that were done in the past there have been  
2 some monitoring wells and boreholes in that area and  
3 perhaps that information is included within the documents  
4 that are already on the public registry.

5 MS. MACLELLAN: I don't believe I've seen  
6 in anywhere in the EIS about the present -- or the last  
7 -- or most recently closed SYSCO site, but like the slag  
8 heap and the tars that are under there is all along the  
9 coast, and wouldn't that be Environment Canada's  
10 responsibility?

11 MS. DOBER: There was work done under the  
12 prior cost-share agreement and I do believe that that  
13 information is currently on the public registry in terms  
14 of some of the documentation. I don't recall  
15 specifically at this time what those results were.

16 MS. MACLELLAN: So, basically then it's  
17 the Province that did the environmental assessment for  
18 that land before it was started to be remediated and  
19 Environment Canada didn't have any input into it?

20 MS. DOBER: We are not involved in any  
21 activity that's taking place on the SYSCO property at  
22 this time.

23 MS. MACLELLAN: Thank you.

24 THE CHAIRPERSON: Thank you. Thank you,  
25 Ms. MacLellan.

1 MS. MACLELLAN: Thank you.

2 THE CHAIRPERSON: Before I go to the next  
3 questioner, I wonder if I could insert a question of my  
4 own which I was going to ask this morning and didn't, and  
5 it relates to the information that's included in IR-17,  
6 follow-up.

7 Now, do you have access to those if I give  
8 you a moment or two?

9 MS. DOBER: Yes, it'll take a moment to  
10 track that down.

11 MS. DOBER: We have it.

12 THE CHAIRPERSON: Okay. I'm just -- this  
13 Information Request, and the information in it, for those  
14 people who don't have it in front of you, we had -- the  
15 panel had an Information Request in to the proponent with  
16 respect to asking how the -- or a follow-up to a  
17 question.

18 We were asking how the contaminants that  
19 remain on both the Tar Ponds and Coke Oven Sites are  
20 expected to change over the 25-year period following  
21 completion of the project, and amongst -- we were --  
22 we did receive a table from the proponent with respect to  
23 the half-life value, soil half-life values for a range  
24 of, I don't know, about 10 compounds, including various

1 metals and PAHs and PCBs, and there's a reference given  
2 from where these -- how this table was derived, and there  
3 were some cautions added saying that the metals take a  
4 long time to decay, the PAHs, PCBs and dioxins and furans  
5 have a significantly shorter half life, particularly if  
6 they're exposed to air or UV radiation.

7 And then there is a statement here above  
8 the table that says:

9 "The values provided in the table IR-  
10 17.2 are theoretical estimates based  
11 on other studies and no site specific  
12 decay rates have been determined for  
13 the Tar Ponds and Coke Oven Sites."

14 And then there's a statement:

15 "Based on these figures, the  
16 remaining treated subsoils of the  
17 Coke Oven Site after capping should  
18 not provide a risk to human or animal  
19 receptors after 25 years, even if  
20 they are exposed."

21 Which would lead me to believe, in fact,  
22 if that's correct, that the cap on the Tar Ponds and the  
23 Coke Ovens would need to last only 25 years at most, and  
24 that, after that, it sounds as though the sites would, in  
25 fact, natural process, be thoroughly remediated.

1                   I am just wondering if you are --  
2 Environment Canada has any comments or any reflections on  
3 the values that have been identified in that table and  
4 the conclusion that was reached, particularly with  
5 respect to the Coke Ovens Site.

6                   MR. ERNST: Well, I'd offer the general  
7 comment that we've taken a look at the half-life table  
8 that's been presented, and, in our estimation, those are  
9 reasonable half lives for those contaminants in soils,  
10 but it should be acknowledged that that would be half  
11 lives for soils that are exposed normally to air,  
12 biological activity, a number of things that would serve  
13 to break down some of those substances more quickly than  
14 if they were sequestered in a matrix where those  
15 influences weren't as great, i.e. if they were covered up  
16 in deep sediments or bound up in materials that wouldn't  
17 allow air and biota into them.

18                   So with regard to the risk upon subsequent  
19 exposure of those materials that had been subject to  
20 those time lines, i.e. 25 years, I think we'd want to  
21 take a look at that a little closer to see if there's  
22 more relevant information that could be used to make such  
23 a statement.

24                   THE CHAIRPERSON: Yes, the statement  
25 refers to the Coke Oven Site, it doesn't refer to the

1 contaminants that will be left in the monolith that will  
2 be bound up in the matrix, and my understanding is that  
3 the KFOs would be significantly slower, but I guess I'm  
4 just exploring this issue on the Coke Oven Site.

5 So this would be soils that would be  
6 underneath -- some of the soils could be at some  
7 considerable depth, but they would be underneath a cap.

8 So your opinion is that that statement, in  
9 fact, should be treated with some caution. You couldn't,  
10 off the top of your head, endorse that right now.

11 MR. ERNST: I think that would be correct.

12 THE CHAIRPERSON: Thank you.

13 I am going to now go to Sierra Club for  
14 your questioning, please, of Environment Canada.

15 --- QUESTIONED BY THE PUBLIC

16 MR. MARCOCCHIO: Thank you, Madam Chair.

17 A series of questions about the concerns  
18 that were raised first with the Department of Fisheries  
19 and Oceans yesterday, and, as they pointed out, it's  
20 Environment Canada that's empowered to enforce the  
21 provisions of the Fisheries Act with respect to  
22 deleterious substances.

23 Our first concern relates to the Cofferdam  
24 design. In the latest iteration of the design of the  
25 Cofferdam, it appears that, in fact, there will be no

1                   damming of the water across the mouth of the harbour,  
2                   that the entrance will be restricted 10 metres, I believe  
3                   it is, but that the end of that channel will continue to  
4                   flow directly into Sydney Harbour without a barrier and  
5                   without, obviously, any physical impairment for both the  
6                   water and/or the contamination that go beyond there.

7                   So the first question is, does Environment  
8                   Canada have any concerns about the possibility that if  
9                   anything goes awry with respect to the leaching of the  
10                  monolith, the groundwater into the channel, that it will  
11                  be discharged without delay through the weir structures  
12                  and into the harbour?

13                  MS. DOBER: I think in our recommendations  
14                  we had identified the need to develop a comprehensive  
15                  monitoring programme, and I would indicate that we would  
16                  expect those particular issues to be captured within that  
17                  monitoring programme, so that people can have a sense of  
18                  if something is beginning to be captured within the water  
19                  that will move through that system.

20                  MR. MARCOCCHIO: Thank you. The  
21                  monitoring programme is exactly the next question that  
22                  I'd like to raise with you.

23                  In the EIS, the proponent does not commit  
24                  to anything beyond meeting the acute lethality provisions  
25                  of the Fisheries Act, that is, they have not given a

1 commitment to produce effluent, a final product to be  
2 delivered into the harbour, that meets anything beyond  
3 the fact that the effluent will not directly kill fish.

4 There is clearly a world of difference  
5 between the acute lethality test and the deposition of  
6 deleterious substances as outlined in the Fisheries Act.

7 What and where does Environment Canada, in  
8 enforcing the Fisheries Act provisions stand on this  
9 issue, and to what standards will the discharge water be  
10 -- to what standards will that water be expected to meet?

11 MS. DOBER: I think, as Mr. Abraham  
12 mentioned in his presentation this morning, we would  
13 consider a compliance monitoring programme for the  
14 Fisheries Act to include both the acute lethality and the  
15 sub-lethal or chronic effects. So we would be expecting  
16 to see that in any monitoring programme.

17 MR. MARCOCCHIO: Can you outline what  
18 those parameters that the proponent would be expected to  
19 meet are?

20 MS. DOBER: At this point in time, all I  
21 can say is that we would look to develop those monitoring  
22 programmes with our colleagues from Fisheries & Oceans  
23 and Provincial Environment, and, at this point, I'm not  
24 sure what those specific tests are.

25 MR. MARCOCCHIO: The migration of leachate

1 from the -- migration of material from the Tar Ponds into  
2 Sydney Harbour has been documented for nearly 30 years  
3 now. To the best of my knowledge, there has never been  
4 any enforcement of the environment provisions of the  
5 Fisheries Act by Environment Canada.

6 How can we, as a community, have faith  
7 that Environment Canada will take its responsibilities  
8 under the Fisheries Act more seriously than it clearly  
9 has not for the past 30 years?

10 MS. DOBER: We indicated this morning that  
11 we will be diligently enforcing our regulations as this  
12 project proceeds, and to do that, in part, we have staff  
13 to position here in Sydney.

14 An Enforcement Officer has been hired, and  
15 will be fully functional here in July. He still has some  
16 training to do as part of his enforcement training  
17 programme.

18 MR. MARCOCCCHIO: Am I to conclude from  
19 that that there has been no enforcement officers located  
20 here in Sydney for the past 30 years?

21 MS. DOBER: That goes beyond my time  
22 period with government. I do know that we have  
23 enforcement officers who travel all over the four  
24 provinces.

25 MR. MARCOCCCHIO: Then that begs the

1 question why has there not been any enforcement.

2 THE CHAIRPERSON: I think the panel is --  
3 for our purposes, we're interested in reviewing the  
4 environmental effects of this project from the mitigation  
5 and the enforcement ongoing. So I think we probably have  
6 information about that that's been provided just now.

7 MS. DOBER: And I think we addressed that  
8 question this morning.

9 MR. MARCOCCHIO: There has been some  
10 discussion about the PCBs that are known to exist  
11 underneath the slag pile. The proponent seems to think  
12 that there is an agreement that's been struck. The  
13 proponent has not yet been able to demonstrate the  
14 agreement.

15 We have, and are quite willing to enter  
16 into evidence aerial photographs going back 50-60-70  
17 years that clearly shows that the area in question is  
18 part of the Tar Ponds.

19 There are several questions here. One, do  
20 you share the proponent's ---

21 THE CHAIRPERSON: Excuse me, I'm going to  
22 interrupt you, because I'm not quite sure what is this  
23 agreement that you're referencing here. If it was said  
24 yesterday, I'm sorry, I have forgotten. I don't know  
25 what you're referring to.

1 MR. MARCOCCCHIO: It was the comment that  
2 Mr. Potter seemed to make that the Memorandum of  
3 Agreement seemed to draw a line at the western edge of  
4 the Tar Ponds for the scope of the project.

5 THE CHAIRPERSON: My -- let me just ask  
6 Mr. Potter if he would just like to respond to that.

7 MR. MARCOCCCHIO: Actually, it was the  
8 eastern shore, my apologies, Mr. Potter.

9 MR. POTTER: The follow-up undertaking we  
10 introduced this morning with the map figure 1.3-1 shows  
11 the boundary of what we determined to be the project as  
12 defined in the MOA as the present-day boundary on the  
13 western and eastern shoreline as we would see it looking  
14 out the window.

I mean, you may have some views with respect to what those boundaries should have been, but I think in terms of questions, which you feel free to bring forward to us, and your presentation, if it's -- questions to Environment Canada, should reflect the boundaries as defined in the EIS because it is the proponent's prerogative to define those.

1                   MR. MARCOCCHIO: Yes, I understand. There  
2 very clearly is no dispute that the PCB contamination is  
3 continuous from the ponds underneath the slag pile and  
4 that's been clearly documented.

5                   So the question is ---

6                   MR. POTTER: Pardon me, Madam Chair, again  
7 there's a reference to information we do not have. We  
8 would be very interested in reviewing this information.  
9 If the witness could present the reference document, I'd  
10 be happy to review it.

11                  MR. MARCOCCHIO: We'd be happy to do that.  
12 It's in the JDAC document on the public record, and I  
13 think you're quite aware of that, Mr. Potter.

14                  THE CHAIRPERSON: Yes, can we just take  
15 this back a minute, please, because I don't think I'm  
16 going to be able to take -- I appreciate your question  
17 about this, but we're not going to have interruptions  
18 during questions, but please bring these things to the  
19 end of the question as needed.

20                  Can we start again, please. What is your  
21 question to Environment Canada?

22                  MR. MARCOCCHIO: The question to  
23 Environment Canada is do they have concerns about the PCB  
24 contamination that currently has been documented, on  
25 documents on the public record, to be under the slag

1 pile?

2                   There are questions about the movement of  
3 groundwater that will continue to move through those  
4 unremediated sediments, and then directly into the  
5 harbour.

6                   So there are two questions. One, is  
7 Environment Canada concerned about the impacts of  
8 groundwater and the ongoing migration into Sydney  
9 Harbour, and secondly do they believe that there should  
10 be a bentonite or some sort of barrier between the  
11 unremediated identified PCB hot spots under the slag pile  
12 and the remediated solidified Tar Ponds sediment.

13                  THE CHAIRPERSON: So now I will ask you,  
14 Mr. Marcocchio, for our purposes the reference for the  
15 presence of PCBs, the delineation of them underneath the  
16 slag pile, is where?

17                  MR. MARCOCCHIO: I believe it's in the  
18 JDAC document. I will provide you with the specific  
19 reference in the morning.

20                  THE CHAIRPERSON: So that's an undertaking  
21 that you will provide that reference.

22                  MR. MARCOCCHIO: Yes.

23                  THE CHAIRPERSON: Thank you.

24                  MS. DOBER: And I must admit I'm not  
25 entirely sure what those documents say, and would be

unwilling to offer any perspective without having had the opportunity to look at that information.

3 THE CHAIRPERSON: Well, what I would  
4 recommend, Mr. Marcocchio, is that you provide that  
5 reference in an undertaking, for the record, and if you  
6 wish to provide a written question, we'll make sure that  
7 that goes on the record, and we'll pass that on to  
8 Environment Canada and we can expect that you will  
9 provide a written response, is that reasonable? [u]

10 MS. DOBER: Sure.

11 THE CHAIRPERSON: Thank you. I'm going to  
12 go next to Mr. Harper. I have -- I'll allow you a brief  
13 question. I have also seen Mr. Ignasiak and indicate  
14 again a brief question at the end, and then that's -- I'm  
15 going to cut off questions for the afternoon. So, Mr.  
16 Harper.

17 MR. HARPER: Thank you, Madam Chair.

18 This is just a point of clarification.

19 The gentleman this morning, whom I don't see any longer  
20 at the table, I believe indicated that the guidelines  
21 associated with the siting of PCB incinerators, the  
22 interim guidelines and the permanent siting guidelines, I  
23 believe he indicated they were out of date and were to be  
24 revised, something to that effect.

25 My question then is have either the 1990

1 or the 1992 guidelines been formally revoked?

2 MS. DOBER: I am not sure that the dates  
3 are correct on those references.

4 MR. HARPER: Well, the dates are not the  
5 important part of the question.

6 There are two guidelines, one dealing with  
7 interim -- the siting of interim incinerators, PCB  
8 incinerators, and another one dealing with permanent  
9 incinerators, and my question was whatever -- I thought  
10 they were 1990 and 1992, but have they been formally  
11 revoked by Environment Canada?

12 MS. DOBER: The references in question are  
13 CCME documents, the Canadian Council of Ministers of the  
14 Environment.

15 MR. HARPER: Okay.

16 MS. DOBER: It is not within our power or  
17 authority to revoke those.

18 We have consulted with the CCME  
19 secretariat. They have indicated to us that they are out  
20 of date, that they are no longer in print and that they  
21 no longer distribute them.

22 MR. HARPER: My question then is although  
23 they may no longer be in print or distributed, are those  
24 guidelines still in force?

25 MS. DOBER: They are guidelines. They

1 never had any force in law. They were a general guidance  
2 to be used in the development of programmes.

3 MR. HARPER: They may not be the force of  
4 law, but I think you can understand where I'm coming  
5 from.

6 The concern is there are guidelines that  
7 are out there. There's a suggestion that they're going  
8 to be reworked. Until they are reworked, are the  
9 guidelines that have been referred to, the CCME  
10 guidelines, I take your point, are they, let me put it  
11 this way, still applicable?

12 MS. DOBER: I think what we mentioned this  
13 morning is that there is still some valuable information  
14 in those documents which can inform remediation plans  
15 such as this.

16 In terms of still applicable, they are  
17 guidelines.

18 With respect to the 1500-metre criteria,  
19 there are other methodologies in terms of air emissions  
20 modelling coupled with human health risk assessment which  
21 can provide an appropriate determination as to whether or  
22 not a separation distance from a proposed incinerator  
23 would be necessary, and, if so, to what extent.

24 MR. HARPER: I won't belabour this, but my  
25 last point on this is from Environment Canada's point of

1 view, then, can I take it you're unaware that those CCME  
2 guidelines have been revoked?

3 MS. DOBER: I can't speak to that issue.  
4 That would have to come from the organization that  
5 developed the documents.

6 THE CHAIRPERSON: I'm not quite sure I  
7 quite understand that question, are they unaware that  
8 they have been revoked. Are you saying that they have  
9 been revoked and then -- what does that question mean,  
10 please?

11 MR. HARPER: I'm just -- Madam Chair, I'm  
12 just trying to determine, we've had reference to a set of  
13 guidelines.

14 There's been an indication that the  
15 various ministers have made representations that the most  
16 stringent guidelines would be applicable. I'm trying to  
17 get a determination as to whether or not those guidelines  
18 we referred to, the interim and final siting guidelines,  
19 they may not still be in print, but are they the last  
20 guidelines that are, I'll use the word in force,  
21 applicable to this site, or to any site in Canada, and  
22 unless and until they are formally replaced by something  
23 else that's what we have to go with. And I asked if  
24 Environment Canada was aware if they had been formally  
25 revoked by anybody.

1                           THE CHAIRPERSON: Yes, I understood all  
2 your line of questioning till you got to the way you  
3 worded the last question, that was not clear to me, but I  
4 understand your questions and I think I understand  
5 Environment Canada's answers, and it sounds to me like  
6 you have a question that should be applied, perhaps, to  
7 CCME, whose guidelines they were.

8                           MR. HARPER: One last question on  
9 something else, which is, in the event that the amounts  
10 of the PCBs on site in the Tar Ponds have been  
11 underestimated by the proponent, what concerns has that  
12 raised, if any, with Environment Canada?

13                          MS. DOBER: Again, I think we spoke this  
14 morning about our obligations under the Toxic Substances  
15 Management Policy and the Stockholm Convention which  
16 permits the management of these types of chemicals in  
17 certain instances and, as such, we would find that  
18 particular approach to be satisfactory.

19                          MR. HARPER: I guess my point was, though,  
20 if there's more to manage, does that heighten your  
21 concern or affect your concern in any way? More to  
22 manage meaning if there was more still on the site to  
23 manage, would that affect or impact your concerns?

24                          MS. DOBER: Could the question be  
25 repeated, please?

1                   MR. HARPER: In the event that the amount  
2 of PCBs at the Tar Ponds site have been underestimated by  
3 the proponent, does that -- how does that impact or  
4 affect Environment Canada's concerns?

5                   MS. DOBER: The approach that was chosen  
6 for these sites is what's known as a risk managed  
7 approach, and the concentrations of PCBs should have very  
8 little impact on that.

9                   MR. HARPER: Those are my questions.

10                  THE CHAIRPERSON: Thank you, Mr. Harper.

11                  I have -- before I get to Dr. Argo and Mr.  
12 Ignasiak, I have Ms. Kane.

13                  MS. KANE: Good afternoon. I'm sorry I've  
14 missed most of the proceedings again today, so ---

15                  THE CHAIRPERSON: You're just going to  
16 have to give up your job, I guess.

17                  MS. KANE: Well, what I'm kind of  
18 surprised about is that Frank, you didn't put in a  
19 request for my boss to have me get some time off for  
20 this, so I could be here all day!

21                  THE CHAIRPERSON: Would you take that as  
22 an undertaking, Mr. ---

23                  MS. KANE: Well, that would be great,  
24 thanks!

25                  I'm sure this has been asked at some point

1           in the day but if I could just ask it again, I'm  
2           wondering, is the Federal Government committed to abiding  
3           by the CCME guidelines as a minimum throughout this  
4           project?

5           MS. DOBER: If we're speaking specifically  
6           about the guidelines that we have been talking about  
7           today, I think we've already provided our answer to that.

8           THE CHAIRPERSON: We've had some  
9           considerable discussion about that in terms of -- and I  
10          think it's very clear where Environment Canada's position  
11          on that is.

12          MS. KANE: That is you are or you aren't,  
13          I guess I just need a yes or no, sorry.

14          MS. DOBER: I'm sorry, I missed that  
15          question.

16          THE CHAIRPERSON: The point of  
17          clarification was she would just -- Ms. Kane would just  
18          like you to confirm whether you are or you are not  
19          applying the CCME -- these are the guidelines with  
20          respect to siting.

21          MS. KANE: Not just, throughout the whole  
22          project.

23          THE CHAIRPERSON: The whole project.

24          MS. KANE: That was the commitment by the  
25          Federal Government, and the letters were provided earlier

1           -- were presented. I provided them to members of both  
2 governments, Provincial and Federal Governments, during  
3 the JAG process years ago before SSTLs were developed.  
4 And the commitment was there from the Federal Government,  
5 from Minister Anderson and Minister Marty, and I'm just  
6 wondering where that stands.

7                         MS. DOBER: We acknowledge that previous  
8 ministers have endorsed the use of those particular  
9 guidelines. There were specific references to the 1992  
10 Hazardous Waste Incineration Guidelines. As we've heard  
11 today, a number of times, those guidelines are now  
12 considered to be out of date.

13                         With respect to other CCME guidelines such  
14 as the Environmental Quality Guidelines, they do endorse,  
15 and sometimes encourage, the use of a risk management  
16 approach for sites in the development of site specific  
17 target levels or remediation objectives. So yes, in that  
18 sense, we are applying those guidelines to this site.

19                         MS. KANE: So I understand you're waiting  
20 for new guidelines to be developed, is that -- is that  
21 specific to incineration, Maria?

22                         MS. DOBER: I'm not sure if there's any  
23 plans by CCME to develop new guidelines for hazardous  
24 waste incinerators. As we spoke this morning, most  
25 remediation programmes now use the combination of air

1 emission and dispersion modelling coupled with human  
2 health risk assessment to try and define specific  
3 distances from incinerators, and I'm not sure, as I said,  
4 that CCME would intend to do anything specific now with  
5 respect to incineration.

6 THE CHAIRPERSON: I believe the reference  
7 to if there was a reference to waiting for a revision was  
8 with respect to the revision of the federal regulations,  
9 is that correct, that that may be the reference?

10 MS. DOBER: There is an intent by our  
11 department to revise our own 1990 Mobile PCB Treatment  
12 and Destruction Regs in the near future.

13 MS. KANE: You will revise your own, or  
14 will it be CCME revising them?

15 MS. DOBER: No, Environment Canada has  
16 regulations at this point. They, too, are considered out  
17 of date due to the development of the Canada-wide  
18 standards, and it's the intent of the department to  
19 revise those to make them more consistent with those new  
20 standards.

21 MS. KANE: Okay. and you will apply those  
22 new guidelines as a minimum, then?

23 MS. DOBER: This gets back to the land  
24 ownership issue. Certainly if the land is Federal, those  
25 regulations will apply.

1                   MS. KANE: Okay. Can I have another  
2 question or two?

3                   Considering that much of the remediation  
4 work will not be conducted within an enclosure, do you  
5 have any concerns about how the emissions generated from  
6 excavating 120,000 tonnes of contaminated Tar Ponds  
7 sludge destined for incineration from performing the SS  
8 process on the Tar Ponds sediments, or from land farming  
9 on the Coke Ovens, and how those emissions may impact the  
10 residents living adjacent to the site?

11                  MR. HINGSTON: Okay. In reviewing the EIS  
12 we are quite comfortable with the emissions inventory  
13 they actually produced to predict potential emissions  
14 from the site.

15                  In terms again of effects on human health  
16 effects, again that goes beyond Environment Canada's  
17 mandate.

18                  MS. KANE: In the EIS -- I'm sorry,  
19 actually it was IR-54, so it would have been a response  
20 to some questions from the panel, I believe, it is stated  
21 that:

22                  "No bench scale or field testing has  
23 been completed to date on potential  
24 volatilization of binding agents  
25 associated with the SS process. It

1                   is anticipated that additional  
2                   testing will be completed in  
3                   association with final engineering  
4                   design activities."

5                   Given that, how can there be a certainty  
6                   that there is a level of safety for the surrounding  
7                   community residents?

8                   MR. HINGSTON: I actually clarified -- the  
9                   issue, I guess is a certainty versus the final design and  
10                  was again also discussed this morning.

11                  One of sort of Environment Canada's  
12                  recommendations I think was, you know, to receive the  
13                  pending remodelling and look at some of the emissions  
14                  pending the final design information from the project,  
15                  for that to happen sort of in the approval stage before  
16                  construction.

17                  MS. KANE: So it's still quite possible if  
18                  you find that the emissions are exceeding what you  
19                  predicted, you will provide enclosures for excavating at  
20                  the Tar Ponds or land farming at the Coke Ovens.

21                  MR. HINGSTON: The process would be not  
22                  necessarily if emissions exceeded. If emissions  
23                  significantly exceeded what was predicted, the next step  
24                  then would be to carry through the analysis to sort of  
25                  determine what those effects would be. That might be a

1                   human health risk assessment. I think Health Canada made  
2 reference to that.

3                   So it would be a stage. If the emissions  
4 were different, what might be the effects be; once you  
5 identify potential effects, and then you would look at  
6 what's appropriate mitigation.

7                   MS. KANE: Another question -- can I keep  
8 going, Madam Chair?

9                   THE CHAIRPERSON: You can keep going for  
10 another four minutes.

11                  MS. KANE: Okay. Thank you. On a  
12 different subject, I'm wondering what has happened to the  
13 pool of leachate that's under the landfill, the landfill  
14 that's been covered?

15                  MS. DOBER: That, I'm not aware of. That  
16 project was managed by the Cape Breton Regional  
17 Municipality in conjunction with the project manager for  
18 the project through 1998 to 2002 or 3, and I am not up to  
19 date on that information.

20                  THE CHAIRPERSON: Did Environment Canada  
21 have a role, have any connection with that?

22                  MS. DOBER: We certainly participated in  
23 the review of the documents, and it was one of the  
24 projects that was funded under the previous cost-share  
25 agreement.

1 MS. KANE: In IR-17 on page 2 it says:

2                    "The containment system that is  
3                    designed to isolate the contaminated  
4                    groundwater quality on the site will  
5                    operate in perpetuity."

6                    Will there be funding to provide for that?

7 MS. DOBER: At this point in time, the  
8 funding arrangements are captured through the Memorandum  
9 of Agreement between the province and Public Works  
10 Canada. I can't speak to those issues.

11 MS. KANE: If I could just ask one  
12 question of -- with regards to this. Frank Potter said  
13 during his first or second day presentation that there  
14 would be some potential short-term risks to birds during  
15 land farming on the Coke Ovens.

16 THE CHAIRPERSON: You're now directing a  
17 question to whom?

18 MS. KANE: Well, it was in relation to  
19 emissions from land farming on the Coke Ovens. I  
20 remember hearing -- and I guess I wanted to understand  
21 what the short-term risks were, and from what, to birds  
22 during land farming on Coke Ovens.

23 THE CHAIRPERSON: Well, let's get some  
24 clarification from the agency as to what may have been  
25 said about that, and then you can direct a question to

1 Environment Canada about that.

2 MR. POTTER: If you can just give us a  
3 minute. We're running into the category where a lot has  
4 been said and we're just trying to clarify who said what  
5 at what point in time.

6 THE CHAIRPERSON: Do you know when this  
7 was, Ms. Kane, exactly, like which ---

8 MS. KANE: I usually reference my ---

9 THE CHAIRPERSON: Yesterday?

10 MS. KANE: No, it was either -- I'm trying  
11 to remember when this all started -- Saturday or Monday.

12 And if they'd like to come back with a  
13 response, that would be fine. I have one more question  
14 following that.

15 THE CHAIRPERSON: Well, you've read your  
16 question into the record, and you may need to -- if it  
17 still needs to be something you want to ask of  
18 Environment Canada, we'll have to find a way to get them  
19 the question based on that, but you don't have -- you do?

20 MR. POTTER: I'll ask Mr. Gillis to  
21 address it.

22 MR. GILLIS: The comment related to an  
23 existing risk to migratory birds on the site itself.

24 During land farming, there will also be  
25 some risk to migratory birds. And we went on to say that

1 what you need to do during a land farming operation and  
2 subsequent activities is ensure that habitats are not  
3 there so that bird nesting occurs during the construction  
4 and remediation process.

5 So that's what the reference was, as I  
6 recall, in the presentation. Thank you.

7 THE CHAIRPERSON: So it's with reference  
8 to disturbance of habitats and destruction of nests, so  
9 you don't -- you avoid the -- deter them from nesting.  
10 You remove the habitat, is that what you're saying, such  
11 that they won't nest?

12 MR. GILLIS: That's correct. Now, first  
13 of all, you have to be careful to do any clearing of  
14 vegetation outside the nesting season, and that's a  
15 recommendation we clearly carried forward.

16 And then subsequent to that, because of  
17 the duration of the activity, you want to ensure that  
18 that nesting habitat does not recreate itself, so you  
19 have to control that, as well. And then once the  
20 remediation is done, let the thing come back.

21 THE CHAIRPERSON: Okay. So that's the  
22 reference, and if you have a question now for Environment  
23 Canada with ---

24 MS. KANE: I don't, now, regarding that.

25 THE CHAIRPERSON: You do?

1 MS. KANE: I don't, no. That was the  
2 clarification I needed.

3 THE CHAIRPERSON: All right.

4 MS. KANE: I have one other question,  
5 though, if I could.

6 THE CHAIRPERSON: All right.

7 MS. KANE: I think it was the panel who  
8 asked this question of STPA and I don't think they  
9 received a response. It was regarding where the  
10 emergency dump stack is located on an incinerator. And  
11 while we got a description of the whole incineration  
12 process, I don't actually remember seeing them point out  
13 whether it was at the top of the primary chamber or the  
14 top of the secondary chamber. And it makes a big  
15 difference where it's located. And I'm wondering where  
16 Environment Canada would expect that to be located.

17 THE CHAIRPERSON: Can I ask first -- or  
18 was that the subject of an undertaking? I'm looking for  
19 my undertaking list.

20 I remember the discussion and you showed  
21 the diagram and there was nothing shown, and you said  
22 that you needed to get closer to the design stage, but  
23 did you make an undertaking, do you recall?

24 MR. POTTER: We believe we made an  
25 undertaking to come back with a map clarifying the bypass

1 location.

2 THE CHAIRPERSON: A figure to show the --  
3 yeah, so there will be something coming on that. With  
4 that in hand, do you still have a question for  
5 Environment Canada?

6 MS. KANE: I would still like them to  
7 answer the question I asked, and could I also ask that  
8 once they come back with that undertaking would I be  
9 permitted to ask a question of their response?

10 THE CHAIRPERSON: A question to the  
11 agency?

12 MS. KANE: Yes.

13 THE CHAIRPERSON: Oh, I'm sure there'll be  
14 an opportunity for that.

15 MS. KANE: Thank you.

16 THE CHAIRPERSON: And in all of that  
17 discourse, I have forgotten what your question was, so  
18 has Environment Canada. You ask the question and then  
19 we'll move on to our next questioner.

20 MS. KANE: Okay. I'm asking where  
21 Environment Canada anticipates that the emergency dump  
22 stack will be located, the top of the primary combustion  
23 chamber or the secondary combustion chamber.

24 MR. HINGSTON: That really will depend on  
25 the final design, so before we could answer that we'd

1 actually have to see the proposed design.

2 MS. KANE: Does it, in any way -- does  
3 Environment Canada feel, in any way, that it will impact  
4 on the emissions whether it's at the top of the primary  
5 chamber or the top of the secondary chamber?

6 MR. HINGSTON: Again, where those stacks  
7 are placed are a function of the design, and one cannot  
8 state which is better or worse until it's looked at the  
9 final design, and so I think there's no value in  
10 answering or trying to answer that question until we  
11 actually have a design.

12 MS. KANE: Thank you.

13 THE CHAIRPERSON: Thank you very much, Ms.  
14 Kane.

15 I am going to take questions from two more  
16 people, and just one question, if you don't mind, please.

17 Dr. Argo, you're right by there, so why  
18 don't you go ahead.

19 DR. ARGO: Thank you very much, Madam  
20 Chair.

21 Yesterday, I took time off -- sorry,  
22 guilty -- and I was doing some perambulations up in the  
23 Whitney Pier area. I came across -- I came down to the  
24 point where I was on the hill looking down about where  
25 the old blast furnaces used to be.

1                   I was quite surprised to see a very new,  
2     very interesting structure taking place there, full of  
3     tubes, full of chimneys and what looked like a control  
4     room.

5                   In fact, this morning, I filed a letter  
6     with your secretariat describing this and asking that it  
7     be identified.

8                   Now, in the course -- this looks to me  
9     very much as if it's a setting up for something that has  
10    to do with a thermal process, a large scale thermal  
11    process.

12                  My question to Environment Canada is how  
13    would the presence of another incinerator in the SYSCO  
14    Site affect their assessment of the present project.

15                  THE CHAIRPERSON: I'm going to first ask  
16    the proponents, not that -- this is on a different site  
17    but if you can shed any light on this, otherwise we're  
18    kind of all guessing.

19                  DR. ARGO: That would be marvellous, that  
20    was part of my questions.

21                  MR. POTTER: We really don't know. We're  
22    not building an incinerator at the present time, we can  
23    rule that one out. Don't understand, can't identify what  
24    ---

25                  THE CHAIRPERSON: This is on the SYSCO

1 site, is it?

2 DR. ARGO: It's on the SYSCO site. It's  
3 about -- presently, I would say that it's quite nice  
4 blue, it looks to me like about 30 feet square and about  
5 20 feet high. The stack is at least 50 feet. I've taken  
6 pictures of it, I haven't had them developed, and when I  
7 get them developed I'll file them with you.

8 But this -- it raises considerable  
9 concerns because Environment Canada today has told us  
10 that they are not interested -- sorry, I paraphrased you  
11 but they don't seem to have any interest, whatsoever, in  
12 the actions that are taking place on SYSCO. This is in  
13 relation to the concerns of the Sierra Club and I think  
14 the concerns of the panel. Thank you very much.

15 THE CHAIRPERSON: Well, thank you. I have  
16 the letter now. I hadn't seen it. So we now have your  
17 letter, and talking about this I don't think I'm going to  
18 -- I don't think there's any point in having this  
19 question put forward right now.

20 DR. ARGO: No, not at all.

21 THE CHAIRPERSON: And I'm not quite sure  
22 who to ask, but if the agency or the proponent would be  
23 willing to perhaps do a little inquiry and to bring back  
24 that information -- I should think you might be  
25 interested yourself -- then we can determine whether this

1 is something that has implications to ---

2 MR. POTTER: We'll certainly go back and  
3 check around the site, but if it's big and blue, the  
4 stack, it's probably the former old incinerator.

5 DR. ARGO: No, I can assure you it's not  
6 old. The stack, 10 feet diameter, nice bright aluminum  
7 coating on the outside.

8 THE CHAIRPERSON: Well, I should think  
9 this is a mystery we should be able to solve.

10 DR. ARGO: I have no doubt.

11 THE CHAIRPERSON: I think so. We'd be  
12 very interested in what you find out.

13 DR. ARGO: Thank you, Mr. Potter. Thank  
14 you Madam Chair.

15 THE CHAIRPERSON: Thank you.

16 Mr. Ignasiak, just one question, please.

17 MR. LES IGNASIAK: Thank you, Madam Chair.

18 I noticed that during the last half an  
19 hour of questioning, Environment Canada took the stand  
20 that the contaminants locked in the monolith will, and  
21 I'm putting that in quotation, "not moving appreciably  
22 with time."

23 My question is, how can we really --  
24 sorry, how can we really draw this conclusion when the  
25 results presented by the proponent, I'm talking about

1 table 13 G, Tar Cell Post Mix Analytical Results, are  
2 showing that the leaching of polycyclic aromatic  
3 hydrocarbons, in this case benzopyrene, is exceeding the  
4 criteria within the range of about 100 to 1700 times.

5 THE CHAIRPERSON: And before you go on,  
6 Mr. Ignasiak, sorry, what was the reference you just  
7 cited?

8 MR. LES IGNASIAK: I am sorry, I went too  
9 fast. I wanted to make it a quick question.

10 THE CHAIRPERSON: Oh, I appreciate that.

11 MR. LES IGNASIAK: But I will give you  
12 exactly what is the source.

13 THE CHAIRPERSON: Is it something that's  
14 on the public registry?

15 MR. LES IGNASIAK: Yes, yes. I am right  
16 here. This is in response to IR-60 submitted by the  
17 panel and it relates to solidification technical memory  
18 port prepared by ---

19 THE CHAIRPERSON: It's the Earth Tech  
20 report, yes. What page are you on? Do you know what  
21 page your reference came from?

22 MR. LES IGNASIAK: Oh yes, I'm sorry.  
23 Once again, this is table 13 G contained in this report.

24 THE CHAIRPERSON: And the page number?

25 MR. LES IGNASIAK: The page number, it's

1 written here "1 of 1" so I'm afraid I cannot answer that.

2 THE CHAIRPERSON: Okay. I can probably  
3 get there eventually.

4 MR. LES IGNASIAK: 13 G. If you look at  
5 table 13, then you go from A all the way to I, so G.  
6 Actually, this is the second last page before the  
7 photographs, is that going to help?

8 THE CHAIRPERSON: I have the page, I don't  
9 know if -- it doesn't have -- it's not in sequentially,  
10 but yes, it is table 13 G.

11 MR. LES IGNASIAK: That's what I'm  
12 referring to.

13 THE CHAIRPERSON: And I think you probably  
14 -- you have the table in front of you, so would you like  
15 to just point out the result in the table to which you're  
16 referring. Mr. Ignasiak, sorry, would you point ---

17 MR. LES IGNASIAK: You wanted me to point,  
18 I'm sorry.

19 THE CHAIRPERSON: Would you say again to  
20 both of us ---

21 MR. LES IGNASIAK: Look at benzopyrene  
22 heading, which is somewhere halfway through the page, and  
23 look at sample PS5 S-15, and you will see a number over  
24 there 790. This is the result of the leachability test,  
25 I understand PCLP test. And then look at the last column

1 which says "PCLP leachate criteria" which, for this  
2 particular compound, is one. Are you with me?

3 MS. DOBER: Yes, I certainly have the  
4 table. I am not entirely sure if this table represents  
5 the mixture that the proponent is proposing to use on the  
6 site at this time.

7 THE CHAIRPERSON: Well, I'm going to go to  
8 the proponents and ask you if you'd like to comment on  
9 this, and then we'll take it from there and see what we  
10 need to do.

11 MR. LES IGNASIAK: Can I perhaps make a  
12 qualification before?

13 THE CHAIRPERSON: Yes.

14 MR. LES IGNASIAK: As the table is  
15 entitled, it's Tar Cell Post Mix Analytical Results.  
16 It's not the mixture as far -- as a matter of fact, there  
17 is no mixture at all in those results. They are separate  
18 results for south pond, for north pond and for tar cells.

19 I am just giving you, as an example, that  
20 in case if the proponent did try to stabilize and  
21 solidify this particular material, the leachability is  
22 really significantly exceeding the criteria which, in  
23 this case, are 1 for this particular compound.

24 THE CHAIRPERSON: I'm not sure whether we  
25 should pursue this question because -- I understand that

1 you're saying this table refers to a -- does not refer to  
2 the project that we are currently reviewing.

3 MR. LES IGNASIAK: No, it does  
4 specifically refer to the project because the tar cell is  
5 part of the material which will be transferred from the  
6 tar cell to the Tar Ponds, mixed up in a ratio which I  
7 don't know what it is, the ratio, and solidified.

8 MR. POTTER: Madam Chair, there seems to  
9 be confusion over what we're doing at the tar cell.

10 I think we've made it clear that the tar  
11 cell is not going to the Tar Ponds. It's part of the  
12 excavation removal and incineration component.

13 THE CHAIRPERSON: That was my comment.

14 MR. POTTER: I will refer to Mr. Shosky  
15 just to clarify what this table's about and hopefully we  
16 can put this to bed.

17 THE CHAIRPERSON: Yes, that was exactly my  
18 comment, that my understanding was that this refers to  
19 something that is not proposed for the project.

20 MR. SHOSKY: That is correct. All of the  
21 samples that we collected in the stabilized mixtures that  
22 we did for the Tar Ponds part of the project all passed  
23 the leaching criteria and all of the requirements that we  
24 had set forth in the EIS.

25 This material we were asked to look at an

1 initial screening step just to run some tests for  
2 stabilization if this were to be carried further.

3 We did find that it would be possible to  
4 stabilize this material with further testing, but  
5 currently, and I'll repeat, currently, the tar cell is  
6 being incinerated and then once it's incinerated will be  
7 taken back, stabilized, after the organic compounds are  
8 removed and buried in the tar cell area from where it  
9 came from.

10 THE CHAIRPERSON: Can I just ask for  
11 clarification on your emphasis on the word "currently",  
12 what did you mean by currently? Do you mean that this is  
13 the project that's under review?

14 MR. SHOSKY: This is the project that ---

15 THE CHAIRPERSON: You don't mean that  
16 currently that's the plan but, you know, who knows three  
17 months from now.

18 MR. SHOSKY: No, this is ---

19 THE CHAIRPERSON: I just wanted to make  
20 that ---

21 MR. SHOSKY: That is correct. You're  
22 exactly correct.

23 MR. LES IGNASIAK: Madam Chair, I  
24 apologise if I mixed it up. However, if I see results of  
25 stabilization of something, I am -- I tend to really

1 interpret that is going to be stabilized. I'm sorry if  
2 that was a misunderstanding.

3 THE CHAIRPERSON: Okay. Thank you very  
4 much, Mr. Ignasiak.

5 I will just ask one more time to the  
6 proponents if you have anything else you wish to add.

7 MR. POTTER: I think we're good for the  
8 day.

9 THE CHAIRPERSON: Thank you. I would like  
10 to thank Environment Canada for coming and for your  
11 presentation this morning, and for coming back to answer  
12 questions.

13 Is anybody from Environment Canada  
14 proposing to be present during the rest of the hearings?

15 MS. DOBER: We will have representatives  
16 here for the entire hearings.

17 THE CHAIRPERSON: I assumed you wouldn't  
18 be able to drag yourselves away.

19 I want also to thank everybody who was  
20 present today, those of you who asked questions and spoke  
21 and those of you who are supporting the hearings by your  
22 presence, it was much appreciated.

23 We will see you back tomorrow at 9 o'clock  
24 in the morning. Thank you very much.

25 (ADJOURNED TO FRIDAY, MAY 5TH, 2006, AT 9:00 A.M.)

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22 Thursday, May 4, 2006 at Halifax, Nova Scotia

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