

PUBLIC HEARING

SYDNEY TAR PONDS AND COKE OVENS SITES

REMEDIATION PROJECT

JOINT REVIEW PANEL

V O L U M E 5

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

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HINGSTON, MR. GREG BICKERTON, MS.
MARIA DOBER, MR. CHRIS MARSHALL AND
MS. ANNE MARIE DRAKE

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MARIA DOBER, MR. CHRIS MARSHALL AND
MS. ANNE MARIE DRAKE

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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 mornings
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

1 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.

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

14 For example, it appears that the
15 precipitation data for Yarmouth were used, rather than
16 those for Sydney. The precipitation levels for Sydney
17 are greater than those in Yarmouth, and they have
18 underestimated the amount of wet deposition predicted by
19 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.

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

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

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

25 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 contaminants 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.

1 THE CHAIRPERSON: And is it fairly common
2 practice that you work with your provincial counterparts?
3 Do they consult with you on matters like this? Would you
4 expect as a matter of course that you will, in fact, end
5 up reviewing more detailed specifications and providing
6 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.

11 THE CHAIRPERSON: Well, I guess that can
12 lead me to the next question which is how many mobile PCB
13 incinerators have been permitted under those regulations,
14 and when -- what dates were they ---

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

9 We did naphthalene as well. Again, in the
10 tables in Response to IR-72 the highest annual average
11 naphthalene number at any location around the Ponds was
12 1.7 micrograms per cubic meter.

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

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

21 So, just in a short period of time we just
22 wanted to give the Panel and Environment Canada some
23 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 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.

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

21 Now, the dioxin -- dioxin has been
22 identified as a carcinogen. The International Agency for
23 Research on Cancer identified dioxin as a carcinogen in
24 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 you 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. OUELETTE: 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 inexperienced 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.

6 THE CHAIRPERSON: Yes, I can appreciate
7 that that's always a better way to go, though I don't
8 think you're detecting the health impacts or detecting
9 the increase in the circumstances that might lead to a
10 health impact.

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 predicable 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."

3 The paragraph that follows that quote
4 deals with PM2.5, particulate matter 2.5 and identifies
5 predicted minor infrequent exceedances of the relevant
6 air quality. I guess what we were stuck with and noticed
7 was that the first portion of the report indicated there
8 were only three things where you're going -- three types
9 of materials where you're going to have exceedances and
10 then they go on to explain that there are other
11 exceedances as well and I just wondered if you had the
12 same sort of reaction to this and this is important
13 because they note that these other exceedances which are
14 beyond the three that were mentioned are not likely to be
15 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.

25 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 MARCOCCHIO: 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. MARCOCCHIO: 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. MARCOCCHIO: 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. MARCOCCHIO: 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. MARCOCCHIO: Yes.

23 THE CHAIRPERSON: --- and the project
24 that's -- that we're reviewing. I mean how does the ---

25 MR. MARCOCCHIO: 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. MARCOCCHIO: 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.

20 THE CHAIRPERSON: Thank you.

21 MS. MACLELLAN: You said before that you
22 -- once -- you're there to advise the province if it's
23 turned over to the Federal government but you do have
24 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. MARCOCCIO: 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. MARCOCCHIO: 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. MARCOCCIO: 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. Ouelette. 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 given a
22 fair bit of information in reply to that, and we were --
23 we did receive a table from the proponent with respect to
24 the half-life value, soil half-life values for a range
25 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. MARCOCCHIO: 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. MARCOCCHIO: 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. MARCOCCHIO: 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. MARCOCCHIO: 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.

15 THE CHAIRPERSON: Unless I'm wrong here,
16 it was the panel's understanding that the proponent
17 defines the boundaries of the project and then the
18 assessment proceeds on that.

19 I mean, you may have some views with
20 respect to what those boundaries should have been, but I
21 think in terms of questions, which you feel free to bring
22 forward to us, and your presentation, if it's --
23 questions to Environment Canada, should reflect the
24 boundaries as defined in the EIS because it is the
25 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

1 unwilling to offer any perspective without having had the
2 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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Janine Seymour, CCR
Philomena Drake, CCR
Sandy Adam, CCR
Ruth Bigio, CCR
Gwen Smith-Dockrill, CCR

Thursday, May 4, 2006 at Halifax, Nova Scotia