Fenton, Chrystal EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 8:10 AM
To: Bailey, Scott EAO:EX; James, Tracy A EAO:EX; Shepard, Michael EAO:EX; Walters, Kimberly A EAO:EX; Walton, Lindsay EAO:EX; Stockman, Fern P EAO:EX; Carter, Rumon EAO:EX
Cc: Carr, Michelle EAO:EX; Craven, Paul EAO:EX
Subject: Public Consultation - Brainstorming
Attachments: s.13

Hello everyone,

Attached is a summary/compilation of the proposals/options we have discussed. I shared a previous version of this with Michelle before she left (note - we added the concept of s.13 . Please take a look and provide any comments/observations or other idea you might have by the end of the week. I will also try and organize another meeting to discuss but it may be difficult given summer holidays.

Leya: could you please arrange a follow-up meeting. Thanks.

Paul

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748

EAO | Environmental Assessment Office

Page 0002 to/à Page 0009

Withheld pursuant to/removed as

s.13

Fenton, Chrystal EAO:EX

From:	Haines, Kate EAO:EX
Sent:	Monday, June 27, 2016 8:09 AM
To:	Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc:	Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject:	Roberts Bank Terminal 2 - EAO coordinated response
Attachments:	RBT2 Panel presentations - update from EAO

Good morning, I am sending this note to all those who have been identified as presenters for the RBT2 panel orientation session tomorrow in Vancouver, and to those who have been identified as go-forward contacts for the panel. I would like to make sure everyone is fully up to date on communications that went out last week, as I know there have been emails going back and forth at the DM, ADM and staff level.

Attached is an email with two letters that Kevin Jardine (Associate Deputy Minister of EAO) sent to the panel last week, and his cover messages to the deputies who received the letters form the panel. These emails and letters provide information on EAO's coordinating role for provincial panel participants, and also provide the information requested in the June 9, 2016, from the panel chair. Also attached is a note sent to presenters on Friday giving a few more details about preparing for the orientation session tomorrow.

For those who are presenting or supporting presenters, I would like to highlight that **PowerPoint presentations are due to the panel no later than noon today**, to be sent directly to Panel.RBT2@ceaa.gc.ca. Please follow up with me, David Grace or Monica Perry if you have any questions.

Also please note that while EAO provided a coordinated provincial response to the June 9 letter to deputies from the panel, for agencies not attending tomorrow, you may want to respond to the panel request directly by letting them know you will not be there (June 12, 2016 follow up letter to provincial Deputy Ministers).

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

EAO Environmental Assessment Office

Fenton, Chrystal EAO:EX

From:	Haines, Kate EAO:EX
Sent:	Friday, June 24, 2016 2:01 PM
To:	Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
Cc:	Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX
Subject:	RBT2 Panel presentations - update from EAO
Attachments:	FW: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation; June 28 Draft PPT presentation.pptx; Panel attendees tracking.docx

Good afternoon,

I am writing to follow up with details regarding next week's presentations at the RBT2 federal review panel orientation session.

First, presentations are due in to the panel "no later than **Monday June 27, 2016 at 12:00 pm PST**. Presentations should be in powerpoint format. All submissions are to be sent to the Review Panel at Panel.RBT2@ceaa.gc.ca."

Please also copy your powerpoint presentation to the recipient list in this email so that we can all have a chance to review each other's submissions and have an opportunity to ask each other any questions of clarification on cross cutting issues.

Attached for your reference are EAO's draft deck, a table summarizing the key provincial contacts/presenters, and an email with some more details about the schedule for Tuesday's panel session.

Kevin Jardine will be circulating the response letter to the panel (coordinated by EAO this week) to his deputy colleagues later today – we are still waiting on one ministry's response.

Monica and I are both available this afternoon and Monday to connect on the phone and discuss anything that still requires clarification. Thanks for your hard work to pull this information together for the panel so quickly.

Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

Fenton, Chrystal EAO:EX

From: Perry, Monica EAO:EX
Sent: Friday, June 24, 2016 12:52 PM
To: Haines, Kate EAO:EX
Subject: FW: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation

Kate, we should include this email. It has the draft schedule from the panel

-----Original Message-----
From: Myles,Debra [CEAA] [mailto:Debra.Myles@ceaa-acee.gc.ca]
Sent: Friday, June 24, 2016 7:25 AM
To: Panel.RBT2@ceaa.gc.ca
Subject: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation

Orientation Session
The Review Panel invites the public to attend, or observe via webcast, an orientation session where information will be provided by federal and provincial bodies that have a mandate and expertise in relation to the proposed Project and its potential environmental effects. The Project Proponent, the Vancouver Fraser Port Authority, will provide an overview of its responsibilities as they relate to marine activities. Although participants and the public will not have an opportunity to ask questions during the session, follow-up questions may be sent to the Panel for its consideration.
The Review Panel intends to provide a live webcast of the orientation session and to archive the video recording. A transcript of the proceedings will be posted on the Registry following the session. The orientation session will be held on Tuesday, June 28, 2016 from 9:00 am - 5:00 pm local time at Simon Fraser University - Segal Building, 500 Granville Street, Vancouver.
Please access the webcast at: http://events.xelivebroadcast.com/events/june28robertsbankterminal2/

The webcast viewing instructions are available at: http://xelivebroadcast.com/instructions/

The draft schedule for the orientation session is posted on the Registry at: http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

Séance d'orientation
La Commission d'examen invite le public à assister en personne ou par diffusion Web à une séance d'orientation au cours de laquelle des renseignements seront fournis par les organismes gouvernementaux fédéraux et provinciaux qui disposent du mandat et de l'expertise nécessaires relativement au projet proposé et à ses effets environnementaux potentiels. Le promoteur du projet, l'Administration portuaire Vancouver-Fraser, fournira un aperçu de ses responsabilités en ce qui concerne les activités maritimes. Bien que les participants et le public n'auront pas la possibilité de poser des questions au cours de la séance, des questions pourront être acheminées ultérieurement à la Commission pour examen.
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L'instructions de la webdiffusion sont disponible à: http://xelivebroadcast.com/instructions/

Le horaire ébauche de la session d'orientation est affiché sur le Registre à: http://ceaa-acee.gc.ca/050/documents/p80054/114746F.pdf

Review Panel Secretariat, Roberts Bank Terminal 2 Project | Secrétariat de la commission d'examen, Projet du Terminal 2 à Roberts Bank c/o Canadian Environmental Assessment Agency | a/s de l'Agence canadienne d'évaluation environnementale 22nd Floor, 160 Elgin St. Ottawa ON K1A 0H3 | 160, rue Elgin, 22ième étage, Ottawa ON K1A 0H3
Panel.RBT2@ceaa.gc.ca / Commission.RBT2@acee.gc.ca
Tel: 613-957-0626 / toll free 1-866-582-1884 | Tél. : 613-957-0626 / sans frais: 1-866-582-1884

Fenton, Chrystal EAO:EX

From:	Haines, Kate EAO:EX
Sent:	Monday, June 27, 2016 8:13 AM
To:	Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc:	Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject:	RE: Roberts Bank Terminal 2 - EAO coordinated response
Attachments:	RBT2 Panel presentations - update from EAO; FW: Roberts Bank Terminal 2 Coordianted Provincial Response

Resending with both attachments – not sure what sort of hiccup happened there with outlook.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 8:09 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
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Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

EAO Environmental Assessment Office

Fenton, Chrystal EAO:EX

From:	Haines, Kate EAO:EX
Sent:	Friday, June 24, 2016 2:01 PM
To:	Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
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Kate

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Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

Fenton, Chrystal EAO:EX

From: Perry, Monica EAO:EX
Sent: Friday, June 24, 2016 12:52 PM
To: Haines, Kate EAO:EX
Subject: FW: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation

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From: Myles,Debra (CEAA) [mailto:Debra.Myles@ceaa-acee.gc.ca]
Sent: Friday, June 24, 2016 7:25 AM
To: Panel.RBT2@ceaa.gc.ca
Subject: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation

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Review Panel Secretariat, Roberts Bank Terminal 2 Project | Secrétariat de la commission d'examen, Projet du Terminal 2 à Roberts Bank c/o Canadian Environmental Assessment Agency | a/s de l'Agence canadienne d'évaluation environnementale 22nd Floor, 160 Elgin St. Ottawa ON K1A 0H3 | 160, rue Elgin, 22ième étage, Ottawa ON K1A 0H3
Panel.RBT2@ceaa.gc.ca / Commission.RBT2@acee.gc.ca
Tel: 613-957-0626 / toll free 1-866-582-1884 | Tél. : 613-957-0626 / sans frais: 1-866-582-1884

Fenton, Chrystal EAO:EX

From: Perry, Monica EAO:EX
Sent: Friday, June 24, 2016 4:08 PM
To: Craven, Paul EAO:EX; Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject: FW: Roberts Bank Terminal 2 Coordianted Provincial Response
Attachments: 301464_Response re Federal Panel RBT2_24June2016-signed.pdf; 301464_Response re Federal Panel RBT2_21June2016.pdf

---

From: Loiacono, Sabrina EAO:EX **On Behalf Of** Jardine, Kevin EAO:EX
Sent: Friday, June 24, 2016 4:07 PM
To: Jardine, Kevin EAO:EX; Baskerville, Shannon JTST:EX; Brown, Stephen R HLTH:EX; Caul, Doug D ABR:EX; Dawes, Jacquie CSCD:EX; Main, Grant TRAN:EX; Mihlar, Fazil ENV:EX; Sheldan, Tim FLNR:EX; Shoemaker, Wes ENV:EX; Sturko, Derek AGRI:EX; Taylor, Sheila A SDSI:EX
Cc: Carr, Michelle EAO:EX; Perry, Monica EAO:EX
Subject: Roberts Bank Terminal 2 Coordianted Provincial Response

Colleagues,

Further to my email below, attached is the provincial response to the Roberts Bank Terminal 2 (RBT2) Independent Panel's June 9, 2016 letter to provincial Deputy Ministers. As stated below, EAO committed to supporting your ministry in participating in the EAs for this proposed project and have worked directly with your staff to coordinate the administrative information requested in the June 9th letter. Michelle Carr, ADM of EA Operations reached out to the relevant ADMs in your ministries. A big thank-you to all agency staff who helped pull this information together so quickly.

We have forwarded the attached provincial response letter to the panel. The panel also sent letters to the provincial Deputy Ministers requesting attendance at the Orientation Session on June 28, 2016 in Vancouver. EAO will be attending the session along with other key provincial ministry representatives. Each attending ministry is responsible for preparing their own presentation and providing the presentation directly to the Review Panel no later than Monday June 27, 2016 at 12:00 pm PST. EAO staff are following up with each agency that have indicated they will be attending the Orientation Session and are working with them on the overall presentation framework.

For agencies not attending, you may want to respond to the panel request directly by letting them know you will not be there (June 12, 2016 follow up letter to provincial Deputy Ministers). EAO staff have been coordinating with agencies to avoid duplication and have provided names of confirmed attendees to the panel already. You will note that we also included agency contact information in the response letter. Regardless of this information, the panel will likely contact those agencies not attending.

Also attached for your information is a letter sent to the panel on June 21, 2016 that clarifies the provincial approach. In that letter I indicate that those ministries whose mandates and authorities necessitate participation in subsequent review processes, will work directly with the panel members with regard to provisions of information requested during the review process. However, EAO will continue to support ministries and coordinate efforts with them throughout the review process. To that end, if you or your staff have any questions, do not hesitate to contact me, Michelle Carr , or Monica Perry, EAO's transportation sector lead for this project.

With very best regards,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

From: Loiacono, Sabrina EAO:EX **On Behalf Of** Jardine, Kevin EAO:EX
Sent: Friday, June 10, 2016 4:44 PM
To: Baskerville, Shannon JTST:EX; Brown, Stephen R HLTH:EX; Caul, Doug D ABR:EX; Dawes, Jacquie CSCD:EX; Main, Grant TRAN:EX; Mihlar, Fazil ENV:EX; Sheldan, Tim FLNR:EX; Shoemaker, Wes ENV:EX; Sturko, Derek AGRI:EX; Taylor, Sheila A SDSI:EX
Subject: Roberts Bank Terminal 2 Environmental Assessments

Good afternoon colleagues,

As you may be aware, the proposed Roberts Bank Terminal 2 (RBT2) project requires both provincial and federal environmental assessments (EA). Yesterday, the newly appointed federal panel conducting the federal environmental assessment sent you a letter directing a response by June 24, 2016. I am proposing that the EAO respond on behalf of all provincial agencies.

The intent of this email is to communicate the provincial approach and describe how EAO will support your ministry in participating in the EAs for this proposed project. Please note that this is time sensitive as the federal panel will be publicly posting its letter to you shortly.

Provincial Approach:
In 2014, BC determined that it would apply the principle of "one project, one environmental assessment" to the provincial EA for this project, and in doing so, would rely principally on an anticipated federal panel review to obtain the key information needed to complete the provincial EA. To that end, on December 19, 2014, the Provincial Minister of Environment issued an Order under the Environmental Assessment Act that set out the scope, procedures and methods for the provincial Environmental Assessment of the proposed Roberts Bank Terminal 2 (RBT2) project (see link below).

Federal Panel and implications for ministries:
The federal panel was established on May 31, 2016 and yesterday proceeded to send a directive out to provincial and federal agencies. The Panel's mandate, authorities, as well as the procedures and timelines for the review are detailed in their Terms of Reference which is linked below.

Note that this is a federal-only review panel under the Canadian Environmental Assessment Act, 2012 which requires Panel members fulfill its mandate within 14 months including:

- Stage 1- Sufficiency review of the EIS (Provincial input required)
- Stage 2- Conduct a public hearing (provincial input may be required)
- Stage 3- Prepare and submit a report to the Minister

The panel may subpoena provincial agencies to participate, should the Panel determine the need for input. Through the Province's commitment to "one process" EAO will support a coordinated provincial response to the recent request as well as support effective ministry participation in the federal panel review itself.

Once the panel has concluded its process, I have (as the Executive Director under the *Environmental Assessment Act*) 5 months to consider the information provided by the panel to inform my recommendation to the provincial accountable Ministers (Environment and Transportation). While this may require additional provincial review our aim is to ensure provincial interests are met through the federal panel review.

Immediate Response to Panel Requirements:
EAO will lead the development of a provincial response to the letter you received, and will work with your staff to support a coordinated, provincial approach throughout the federal panel process.

I have asked Michelle Carr, ADM of EA Operations to reach out to the relevant ADMs in your ministries to provide more details on this time sensitive provincial response as well as the approach to the EA. In the interim, please find further detail below and do not hesitate to contact me with any questions or concerns.

With best regards,
Kevin.

Link to federal review panel TOR: http://www.ceaa-acee.gc.ca/050/documents/p80054/101301E.pdf

Link to provincial procedures: http://a100.gov.bc.ca/appsdata/epic/html/deploy/epic_document_410_38481.html

Key components of the Provincial order:

- RBT2 is reviewable under the Reviewable Project Regulation, since the proposed RBT2 is a new marine port facility that involves dredging and filing of more than two hectares of submerged land.
- The Federal Minister of Environment and Minister Responsible for the Canadian Environmental Assessment Agency announced on January 7, 2014 the referral of the proposed RBT2 project for an environmental assessment by an independent federal review panel.
- On January 7, 2014, the Canadian Environmental Assessment Agency issued Guidelines for the Preparation of an Environmental Impact Statement, outlining the information which must be provided by the Proponent (the Vancouver Fraser Port Authority) to enable an environmental assessment of the proposed RBT2.
- Through the course of the federal panel process sufficient information for the provincial assessment of the proposed Project may be produced through the Environmental Impact Statement, the review and comments provided by government agencies, Aboriginal Groups, interested parties and experts, the general public, and the Panel Report.
- The Province will rely principally on the federal review panel environmental assessment of the proposed RBT2 project for the information needed for the assessment.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

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Fenton, Chrystal EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 8:19 AM
To: EAO Executive Project Directors
Cc: Carr, Michelle EAO:EX; Scraba, Erin H EAO:EX; Fenton, Chrystal EAO:EX; Cheema, Kashmiro K EAO:EX; Craven, Paul EAO:EX
Subject: Amendment Guidance
Attachments: s.13

s.13 , Certificate Holder Guidance - Amendments to EAC_June 2016.docx

Hello all,

s.13

If you have questions, please let me know.

Paul

Page 0027 to/à Page 0048

Withheld pursuant to/removed as

s.13

From: Craven, Paul EAO:EX
To: EAO Staff - All
Subject: New Policy: General Policy Application for the EA Act
Date: Monday, June 27, 2016 8:29:39 AM
Attachments: image002.jpg
s.13

Hi everyone,

s.13

Of course, if you have questions about the attached, please do not hesitate to contact me.

Paul

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748
email_signature

Page 0050 to/à Page 0052

Withheld pursuant to/removed as

s.13

Fenton, Chrystal EAO:EX

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 9:54 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

Further to my note this morning, the draft agenda for tomorrow has been posted to the CEA registry:

http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

If you wish to be added to the panel's distribution list to receive updates, you may provide your name and email address to Panel.RBT2@ceaa.gc.ca.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 8:13 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

Resending with both attachments – not sure what sort of hiccup happened there with outlook.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 8:09 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: Roberts Bank Terminal 2 - EAO coordinated response

Good morning, I am sending this note to all those who have been identified as presenters for the RBT2 panel orientation session tomorrow in Vancouver, and to those who have been identified as go-forward contacts for the panel. I would like to make sure everyone is fully up to date on communications that went out last week, as I know there have been emails going back and forth at the DM, ADM and staff level.

Attached is an email with two letters that Kevin Jardine (Associate Deputy Minister of EAO) sent to the panel last week, and his cover messages to the deputies who received the letters form the panel. These emails and letters provide information on EAO's coordinating role for provincial panel participants, and also provide the information requested in

the June 9, 2016, from the panel chair. Also attached is a note sent to presenters on Friday giving a few more details about preparing for the orientation session tomorrow.

For those who are presenting or supporting presenters, I would like to highlight that **PowerPoint presentations are due to the panel no later than noon today**, to be sent directly to Panel.RBT2@ceaa.gc.ca. Please follow up with me, David Grace or Monica Perry if you have any questions.

Also please note that while EAO provided a coordinated provincial response to the June 9 letter to deputies from the panel, for agencies not attending tomorrow, you may want to respond to the panel request directly by letting them know you will not be there (June 12, 2016 follow up letter to provincial Deputy Ministers).

Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

EAO Environmental Assessment Office

Fenton, Chrystal EAO:EX

From:	WLRA Member <wlrassociation@gmail.com>
Sent:	Monday, June 27, 2016 10:00 AM
To:	Polak.MLA, Mary LASS:EX; Carr, Michelle EAO:EX; Klassen, Andrew FLNR:EX; Dearmond, Wes ENV:EX; Tobin, Patrick J FLNR:EX; Beadman, Kyle FLNR:EX
Cc:	Kyllo.MLA, Greg LASS:EX; Bryon Every
Subject:	Re; Request for assistance.

Follow up request.

To date, we have not received a reply from you regarding the request for comment we sent on June 17th, 2016.

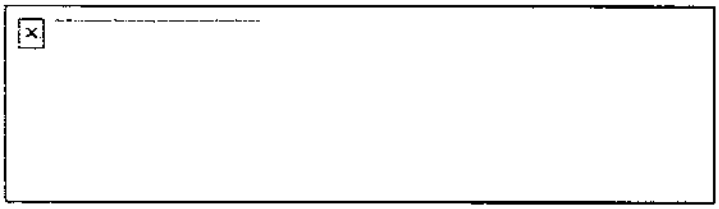
The WLRA views the referral consultation process from BC Ministries to be a positive asset for communities and the general public to be more involved with functions of Government and to assist with providing more accurate views and concerns that in turn help Government with better planning abilities. Please consider, we address these issues with interest and do our best to address them in a timely fashion.

The WLRA would like to move this process forward to allow BCTS to proceed with their planning. However, a response of our requests to you are needed in order for us to proceed.

Thank you for your prompt attention,

Bryon Every,
President, WLRA.

On Fri, Jun 17, 2016 at 9:03 AM, WLRA Member <wlrassociation@gmail.com> wrote:



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June 17th, 2016.
To whom this may concern.

The WLRA is a community association committed to the best interest of the community.
As part of our the association's mandate, due-diligence is a key factor to providing our community with reliable information to help make informed decisions to issues that present themselves to our community.

The WLRA has recently received a referral letter from BCTS regarding a fertilization program that will take place within our area. White Lake is a pristine lake noted for some of the finest fishing in the province and is the supplier of many domestic water licenses.
Wildlife is an abundance of Moose, Deer, Bears, Cougars, Eagles, many different reptiles that include the rare and protected Rubber- Boa Snake.

The WLRA serves to protect the integrity of our community, lake and watershed.
We have conducted research into the BCTS proposed fertilization program.

To conclude our information collecting, the WLRA is requesting those who receive this letter, to answer the following questions.
Once this information has been received and reviewed, our board of Directors can confidently bring the issue to the membership for comment.

The WLRA is asking the same questions to each of you and request that you reply to them.

QUESTIONS: RE: the use of "UREA PELLETS" for forest "Fertilization".

Not limiting the questions to the area of concern but within any and all areas in BC where this program may have been used/applied or executed.
"Is there any known, recorded or otherwise, information, that has shown results that indicate or suggest a negative effect on water quality within streams, creeks, lakes or any tributaries of the mentioned, in areas of treatment"?

"Is there any known, recorded or otherwise, information, that has shown results that indicate or suggest a negative effect on wildlife or any other living species within the forest areas of treatment"?
"Is there any known, recorded or otherwise, information, that would indicate or suggest that the use of "UREA Pellets" at the rate of 435 kg/hectare over a large area could be a concern or have a negative effect regarding the concerns mentioned in the previous questions"?

As I have mentioned previously, the WLRA has conducted research into the application use of Urea Pellets. Your participation will help us to provide the most accurate information available and allow confidence while presenting the referral to the public.

In advance, thank you for your consideration regarding this request.

Sincerely,
Bryon Every.
President, White Lake Residents Association.

Fenton, Chrystal EAO:EX

From: Carsen, Dannie CSCD:EX
Sent: Monday, June 27, 2016 10:09 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Haines, Kate EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
Subject: RBT2 Panel presentations - CSCD Presentation

Good Morning,
Please see attached the MCSCD slides for the June 28th Review Panel Orientation Session of the RBT2.



Regards,

Dannie Carsen | Senior Program Analyst
Governance and Structure Branch | Ministry of Community, Sport and Cultural Development
Direct: **250.387.2188** | Fax: 250.387.7972 | Toll free 604-660-2421 in Vancouver or 1-800-663-7867
Email: Dannie.Carsen@gov.bc.ca | Website: http://www.cd.gov.bc.ca/lgd/

From: Haines, Kate EAO:EX
Sent: Friday, June 24, 2016 2:01 PM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX
Subject: RBT2 Panel presentations - update from EAO

Good afternoon,

I am writing to follow up with details regarding next week's presentations at the RBT2 federal review panel orientation session.

First, presentations are due in to the panel "no later than **Monday June 27, 2016 at 12:00 pm PST**. Presentations should be in powerpoint format. All submissions are to be sent to the Review Panel at Panel.RBT2@ceaa.gc.ca."

Please also copy your powerpoint presentation to the recipient list in this email so that we can all have a chance to review each other's submissions and have an opportunity to ask each other any questions of clarification on cross cutting issues.

Attached for your reference are EAO's draft deck, a table summarizing the key provincial contacts/presenters, and an email with some more details about the schedule for Tuesday's panel session.

Kevin Jardine will be circulating the response letter to the panel (coordinated by EAO this week) to his deputy colleagues later today – we are still waiting on one ministry's response.

Monica and I are both available this afternoon and Monday to connect on the phone and discuss anything that still requires clarification. Thanks for your hard work to pull this information together for the panel so quickly.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

EAO Environmental Assessment Office

Fenton, Chrystal EAO:EX

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation
Attachments: June 28 Draft PPT presentation.pptx

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

EAO Environmental Assessment Office

Fenton, Chrystal EAO:EX

Subject:	Karen to attend MMPO
Start:	Thu 2016-07-07 12:00 AM
End:	Fri 2016-07-08 12:00 AM
Show Time As:	Free
Recurrence:	(none)
Organizer:	Carr, Michelle EAO:EX

Fenton, Chrystal EAO:EX

From: Gow, Lisa A TRAN:EX
Sent: Monday, June 27, 2016 11:26 AM
To: Haines, Kate EAO:EX; 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RE: RBT2 Panel presentations - EAO presentation
Attachments: BC Ministry of Transportation and Infrastructure CEAA Panel Presentation (nsn).pptx

Good morning – here is the BC Ministry of Transportation presentation.

Lisa Gow
Ministry of Transportation and Infrastructure

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

EAO Environmental Assessment Office

Fenton, Chrystal EAO:EX

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation
Attachments: June 28 Draft PPT presentation.pptx

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

EAO Environmental Assessment Office

Fenton, Chrystal EAO:EX

From: Turner, Sara J NRTS:EX on behalf of Bangert, Wilf R NRTS:EX
Sent: Monday, June 27, 2016 11:26 AM
To: NRTS NRPP Steering Committee
Cc: NRTS NRPP Steering Committee Assistants; Grant, Nelson T NRTS:EX; Medd, Andrew NRTS:EX
Subject: MATERIALS ATTACHED: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting
Attachments: NRPP_SCMeeting_2016_06_27 -AGENDA.pdf; NRPP-SOM_ADM-Discussion-Deck_FINAL.PPTX; Appendix -NRS Authorization Workflow -Workshop-Proposal-v9.pptx; Appendix -NRS Authorization Workflow Model UN Information Sheet v2.docx

Hello all,

Attached, you will find materials for this afternoon's meeting.

Regards,

Wilf Bangert

Assistant Deputy Minister | NRS Transformation & NRPP
Natural Resource Sector Transformation Secretariat
Phone: 250.387.6096 | Fax: 250.952.0821
(E): Wilf.R.Bangert@gov.bc.ca

Learn more: Natural Resource Permitting Project

From: Bangert, Wilf R NRTS:EX
Sent: Friday, June 24, 2016 4:20 PM
To: NRTS NRPP Steering Committee
Cc: NRTS NRPP Steering Committee Assistants; Grant, Nelson T NRTS:EX; Medd, Andrew NRTS:EX
Subject: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting

Hello ADM Steering Committee members,

As discuss at the last Steering Committee meeting, we have schedule a meeting for this Monday (June 27th) to further discuss the Sector Operating Model and Authorization Workflow projects. Attached is the agenda for the meeting.

In the session, we will be asking you to validate the design principles that will set the direction for our effort and your engagement in these projects. This work will define the meaning of 'sector transformation' by documenting a model that will enable its implementation. It will identify overlaps, redundancies and other opportunities for leaning, standardizing and optimizing sector operations.

The meeting will also be covering a proposed NRS Authorization Workflow engagement model.

In addition to Monday's meeting we also have few other **key asks** from you:

Sector Operating Model (and Blueprint)

- Be available over the next 2-3 weeks for a 30 minute overview session on the blueprint and another 30 minute interview on the Sector Operating Model

- Nominate a Subject Matter Expert within your business area (at a decision-making level) who should be included in several design workshops (first workshop at end of July)

Authorization Workflows

- Nominate a Subject Matter Expert within your business area (at a decision-making level) who should be included in a five day Authorization Workflows workshop to be held late September /early October

Looking forward to the meeting and the discussions.

Regards,

Wilf Bangert

Assistant Deputy Minister | NRS Transformation & NRPP
Natural Resource Sector Transformation Secretariat
Phone: 250. 387.6096 | Fax: 250.952.0821
(E): Wilf.R.Bangert@gov.bc.ca

Learn more: Natural Resource Permitting Project

NRS Authorization Workflow

Engagement Process

Model UN



What is Model UN?

- Format to be used is *Model United Nations (UN)*. It is a facilitated activity in which participants typically role-play delegates to the United Nations and simulate UN committees.
- Model UN has potential to address future sector wide decision making needs and is a new tool for Learning Organization Practitioners to use.

Why is the Workshop Needed?

- This unique engagement process will allow for the efficient, effective and sector-wide endorsement of NRS Authorization Workflow. The NRS Authorization Workflow provides a standardized workflow for authorizations and obligations for the natural resource sector. To achieve endorsement, the following questions needed to be addressed:
    - Do we have all the attributes captured?
    - Do we have all process requirements identified?
    - Have we captured them correctly?
    - Agreement on the sequencing and dependencies - how/when they are used e.g. how a referral is done, how triage is handled in the future, etc.
    - Agreement on exceptions and how those will be handled.
- Maximize staff input now and minimize burnout by not needing to repeat the process for every authorization or creating duplicate processes.
- Focus on the process only, organizational design considerations will be captured and addressed at a later date.

How Will It Work?

- Each Ministry decides on the composition and leadership of the delegation team they feel they need for adequate representation.
- An unlimited number of delegates are allowed per Ministry. Attendance and pre-work completion is mandatory before and for the duration of the workshop.
- All NRS Ministries are required to send representatives (delegates) to the workshop:
    - Aboriginal Relations and Reconciliation;
    - Agriculture;
    - Energy and Mines;
    - Environment;
    - Forest Lands & Natural Resource Operations, and;

  - Natural Gas Development.
- Each Ministry is restricted to a single vote. There is no veto power. Delegates are fully empowered to make binding decisions about work flow process standardization.

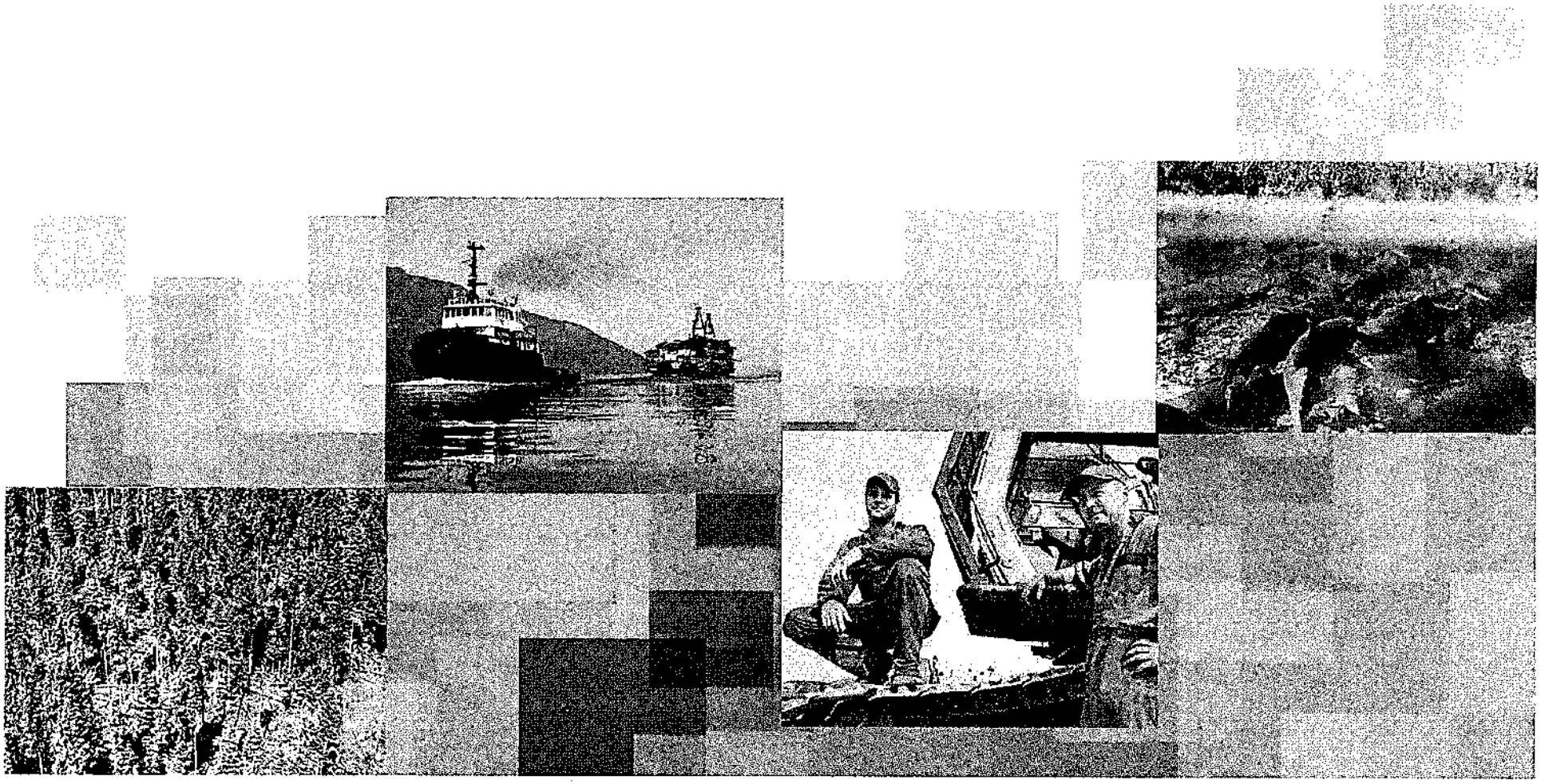
Delegate Role and Responsibilities

- Delegates must resolve all issues within the workshop format.
- Delegates may reach out to "experts" during the session for advice or clarification.
- A pre-work shop orientation and outline of preparation activities will be held in advance. This will occur in the July/August timeframe.

Who Should Attend?

- Folks who are highly motivated to make the Natural Resource Sector "processes" work better.
- Extroverted communicators and people connectors.
- Introverted thought leaders and thinkers.
- Natural leaders who lead by example and are well respected.
- Open to compromise and comfortable with negotiation.
- Creative problem solvers.
- A diversity of backgrounds, locations or experiences in such areas as: clerical, policy, authorizations, compliance, management, finance, decision making, analysis, etc.
- ADM or DM participation/visibility during the event is important. Several options to achieve that goal are available.

NRS Authorization Workflow Business Endorsement - Appendix



NRS Blueprint – Future State Model for the Sector

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NRS Authorization Workflow

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NRS Authorization Workflow – Sector Endorsement and Validation

- Unique engagement process proposed that will allow for the efficient, effective and sector wide endorsement.
  - Do we have all the attributes captured?
  - Do we have all process requirements identified?
  - Have we captured them correctly?
  - Agreement on the sequencing and dependencies - how/when they are used e.g. how a referral is done, how triage is handled in the future, etc.
  - Agreement on exceptions and how those will be handled.
- Maximize staff input now and minimize burnout by not needing to repeat the process for every authorization or creating duplicate processes.
- Focus on the process only, organizational design considerations will be captured and addressed at a later date

NRS Authorization Workflow - Workshop Format

- Format to be is used is *Model United Nations (UN).* It is a facilitated activity in which participants typically role-play delegates to the United Nations and simulate UN committees.
- All NRS Ministries are required to send representatives to the workshop (Aboriginal Relations and Reconciliation, Agriculture, Energy and Mines, Environment, Forest Lands & Natural Resource Operations, Natural Gas Development)
- Each Ministry decides on the composition and leadership of the delegation team they feel they need for adequate representation.
- An unlimited number of delegates is allowed per Ministry. Attendance and pre-work completion is mandatory before and for the duration of the workshop.
- Each Ministry is restricted to a single vote. There is no veto power. Delegates are fully empowered to make binding decisions about work flow process standardization.

NRS Authorization Workflow - Workshop Format

- Delegates must resolve all issues within the workshop format.
- Delegates may reach out to "experts" during the session for advice or clarification.
- A pre-work shop orientation and outline of preparation activities will be held in advance. This will occur in the July/August timeframe.
- Model UN is a format that has potential to address future sector wide decision making needs. An new tool for Learning Organization Practitioners to use.



Who should attend

Ministry teams should be composed of:

- Folks who are highly motivated to make the Natural Resource Sector "processes" work better
- Extroverted communicators and people connectors
- Introverted thought leaders and thinkers
- Natural leaders who lead by example and are well respected
- Open to compromise and comfortable with negotiation
- Creative problem solvers
- A diversity of backgrounds, locations or experiences in such areas as: clerical, policy, authorizations, compliance, management, finance, decision making, analysis, etc.
- ADM or DM participation/visibility during the event is important. Several options to achieve that goal are available such as:
  - "ADM of the day"
  - Opening and closing

How is Model UN structured? How does it work?

- A facilitated, structured process is used to guide the delegates through the engagement model UN process.
- There is a general assembly component:
  - Only voting delegates attend
  - Voting on resolutions prepared by committees
  - Decision making body for the process
  - Mandatory that voting delegate attends
  - Fixed time for debate and voting
  - A chairperson oversees the proceedings of the general assembly to ensure order and procedure is adhered to.

How is Model UN structured? How does it work?

There is a committee component that :

- Allows all delegates to participate and provide input on whatever topics have been identified.
- Only delegates with an interest on the topic need to attend
- Delegates review the proposed requirements in detail. They are free to propose changes and improvements to the draft processes. When the process has been fully reviewed, the group drafts a "resolution"
- The resolution outlines any conditions, assumptions, rationale as to why a process should be a particular way and that the group is recommending approval of the process that was reviewed.
- These resolutions are brought back to the general assembly so that all voting members can review the resolution and vote. If the resolution is "passed", that piece of work has been endorsed. If not passed, the resolution is return to the "committee level" and further work is undertaken by the Committee
- Committee sessions are professionally facilitated and have a support team to assist

How is Model UN structured? How does it work?

- Process repeats until all aspects of the work flow have been reviewed, resolution prepared and voted on. Once all pieces have been voted on, a final confirmation vote is held so that the entire package is endorsed.

International Standards Development Model

1. Choreography and Modularity – Ratify to the conceptual model at a high level and agree upon terminology
2. Prioritize and Schedule - technical and business issues are raised as to what can easily be put into a Shared Service within the NRS Online Service offering for Authorization System and Engagement System.
3. Documentation and Standardization – follow-up workshop of the whole group to promote the products to a formal acceptance
4. Review & Test - Review and comment by groups on the results of Step 3.
5. Implementation and deploy – Deploy the processes into the environment
6. Compliance and Certification – recognizes that change over time and this new standard will be become the sector standard.

Time Lines

- By End of June: ADM Steering Committee endorsement of workshop approach - decision confirmed
- Mid July: Final workshop participant list supplied to NRPP by Ministries.
- Mid July-Aug 1: Distribute pre-work to attendees (delegates)
  - Model UN Orientation
    - Mechanics of the process
    - Simulations of simple Model UN process
  - Roles, responsibilities and expectations
  - Authorization matrix and first level of proposed authorizations processes
  - Request for input on services used in business area
    - Team assignments

Logistics & Budget

Transportation, Lodging & Meals: Ministry Responsibility

Location: Vancouver or Victoria if ADMs/Exec Leadership to attend - video conferencing of ADM/Exec Leadership into session is also an option.

Date: September 2016

Duration: Five-day workshop with extended hours during the session or option to hold second session for an additional five days.

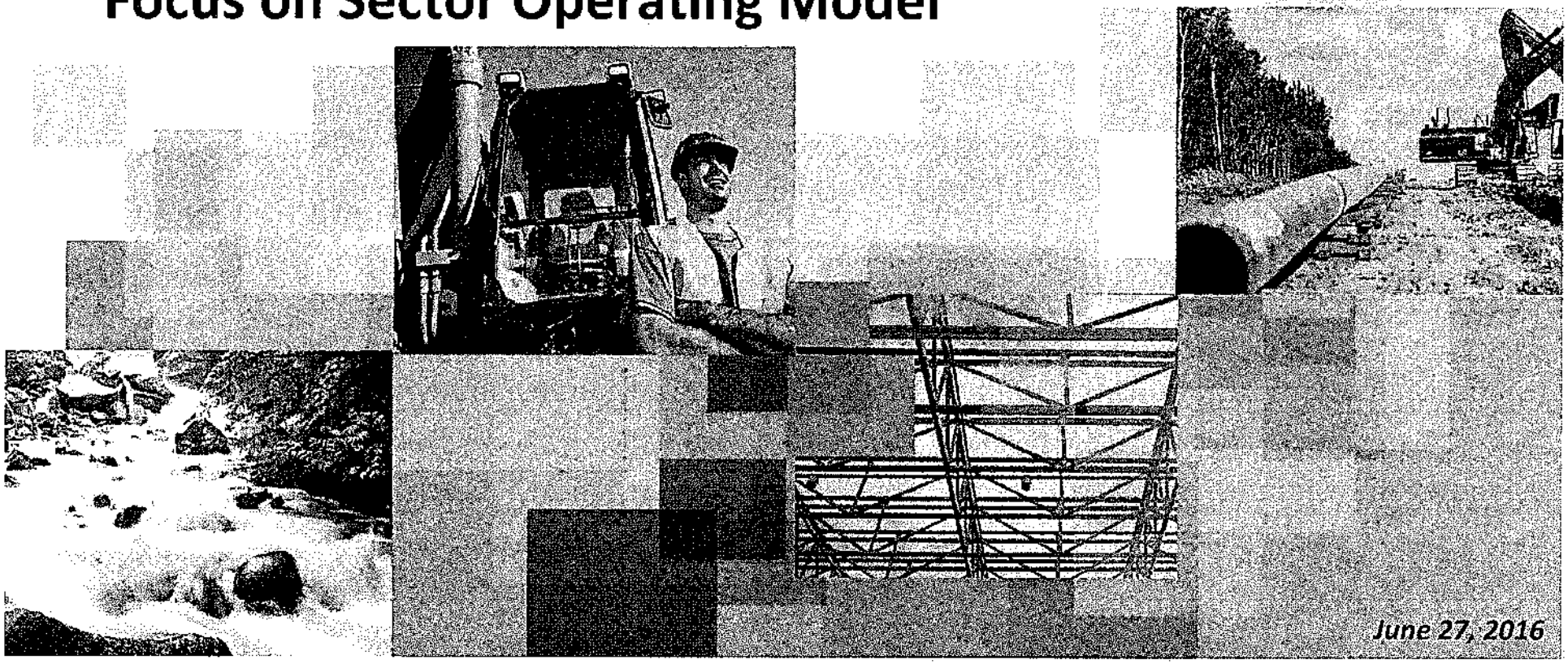
Format: Model UN

BRITISH COLUMBIA | Natural Resource Sector Transformation Secretariat

Natural Resources Permitting Project

ADM Steering Committee:

Focus on Sector Operating Model



June 27, 2016

Expectations for Today's Session

BRITISH COLUMBIA

Outcomes of our session:

- ❑ Develop understanding of the Business Blueprint, Sector Operating Model and NRS Authorization Workflow approach
- ❑ Confirmation of Business Blueprint design principles
- ❑ Confirm engagement approaches

What we will cover today:

❑ Welcome and Introductions	10 minutes
❑ Overview: Business Blueprint, Sector Operating Model, and Authorization Workflow	20 minutes
❑ Transformation Principles Discussion	20 minutes
❑ Sector Operating Model	20 minutes
❑ Authorization Workflow Engagement Model	20 minutes

Our ask of you

- Be available for an interview
- Identify key people to participate in the operating model drafting for workshops and interviews
- Approve approach to business engagement

Transformation: Where we have come from and where we are at

We have consulted broadly across sector:

- 200 business members as part of business case
- Subject Matter Experts supporting initial process design
- Business Design Authority sector wide representation
- Business Leads and Subject Matter Experts from business areas currently working with NRPP

Business input has led to:

1. Development of transformation design principles
2. Development of a picture of how the business will operate in the future

Together these make up an **emerging future state** of the sector that is articulated in the Sector Business Blueprint, Operating Model and the NRS Authorization Workflow

NRS operations will be defined in incremental levels of detail, flowing from the Business Case

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Business Blueprint overview

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The Business Blueprint advances the Sector's vision and outlines future changes

BRITISH COLUMBIA

Key Features

- All transactions and inquiries managed through one NRS window
- Clients are provided with activity based authorizations

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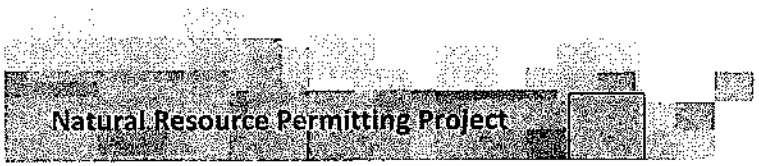
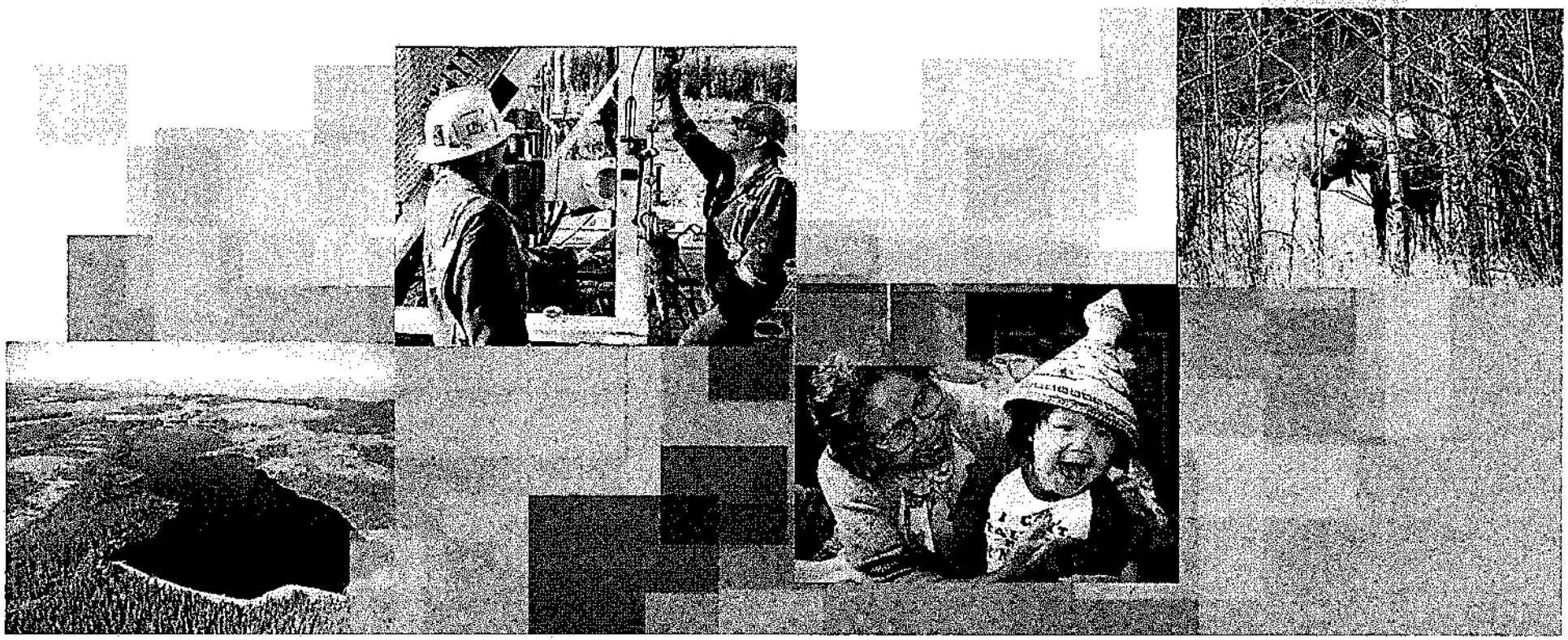
Review of the Transformation Design Principles

s.13,s.17



NR Sector Operating Model



Sector Operating Model project context

- The Sector Operating Model project has started
- This effort is dependent on co-design and collaboration with key stakeholders from the across the sector

s.13,s.17

Sector Operating Model Scope

s.13,s.17



Your engagement is crucial to the Sector Operating Model development

s.13,s.17

Interviews

30 Minutes

- Further detailed Blueprint socialization

30 Minutes

- Sector Operating Model interview

Key Outcomes

- Understand proposed direction for the NRS
- Your perspective on what is important for design
- ADM's nominate directors for Design Workshops

Design Workshops

3 Hours

- Specific delegates from your organizational area are nominated in the Sector Operating Model interviews to attend Design Workshops

Key Outcomes

- Validation of sector operating model designs

Blueprint & Sector Operating Model – Our ask

- Be available in the next two weeks for a 30 minute session on the Business Blueprint and another 30 minute interview on the Sector Operating Model work
- Nominate your decision makers who should be included in the Design Workshops going forward (first at end of July)

NRS Authorization Workflow Engagement Model



Standard Process Model - NRS Authorization Workflow

BRITISH COLUMBIA

Purpose:

To develop a set of standard workflow (and supporting requirements) for processing and managing authorizations and obligations associated with the Natural Resource Sector

How NRS Authorization Workflow will be used:

The NRS Authorization Workflow establishes the foundation for how specific types of tasks are done in the sector for processing authorizations and obligations. They will be used to accelerate transformation and process modeling discussions with respective business areas.

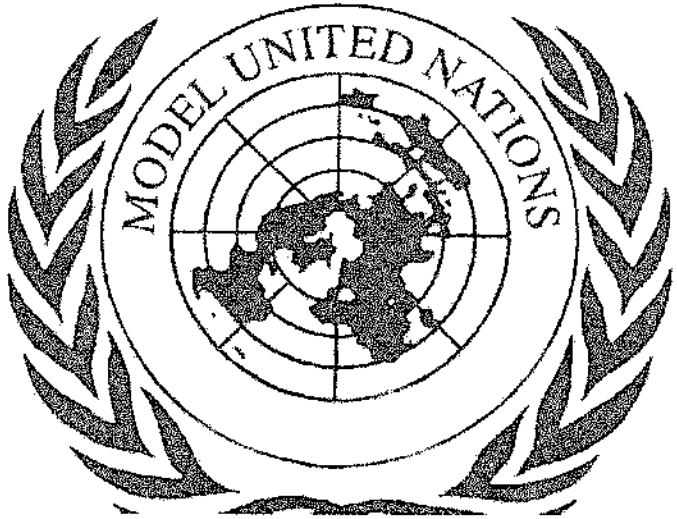
Work done to date:

- Leveraged the process taxonomy work that was done in 2014 as the starting point.
- Builds on previous engagements with business areas (i.e. Integrated Decision Making, One Process, Crown Land Improvement Project) and many other initiatives.
- Documented a standard approach for specific sector activities (i.e. make a payment) using a series of business process models, business requirements, business rules, and use cases.

Next Steps:

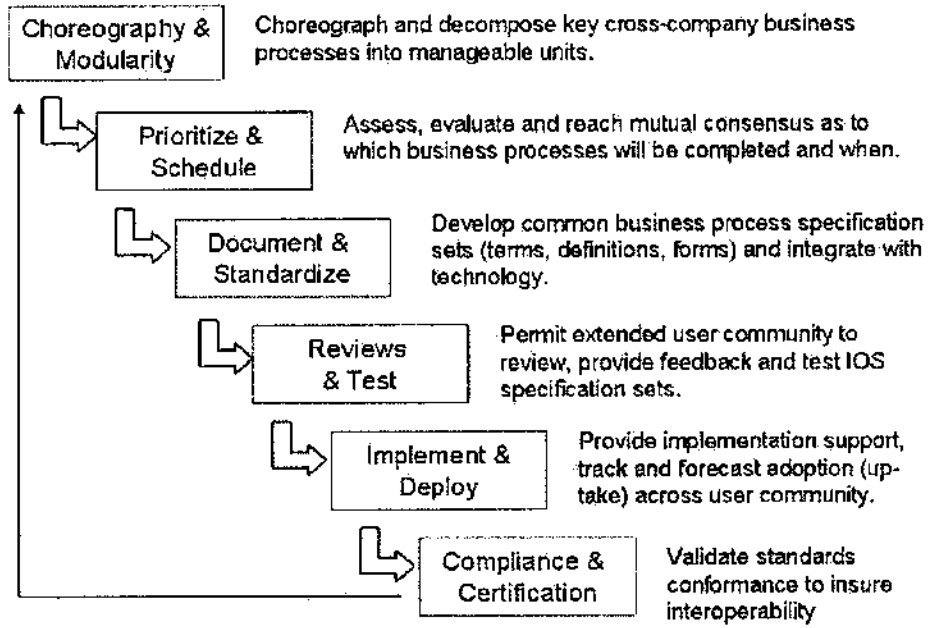
- Socialize in a workshop format the draft model with sector representatives for endorsement

Workshop Option 1: Model United Nations (UN)



- *Model United Nations (UN)* is a facilitated activity in which participants typically role-play delegates to the United Nations and simulate UN committees. Process is being adapted to support a facilitated engagement method that can be used for dealing with NRS sector wide issues. Specifically, endorsement of the NRS Authorization Workflow in an efficient and effective manner.

Workshop Option 2: International Standard Development Cycle (ISO)



- *The ISO Standard Development Cycle is a six step engagement process for gaining acceptance by stakeholders. The process may include pre-work for participants to gain a solid background on the issues requiring acceptance. The process allows the business areas to customize solutions based on their real unique needs, with input and review from other groups with a shared interest in the outcome. The engagement process would occur over multiple sessions spanning several weeks.*

Model UN vs. ISO: Pros and Cons

BRITISH COLUMBIA

Option 1: Model UN

Pros

- Unique model that leverages established processes to solve complex issues
- Innovative process, new tool for the toolbox.
- Active consensus seeking process with high levels of stakeholder engagement
- Results oriented within a hard timeline

Cons

- Steeper learning curve for participants to fully onboard to the process
- Risk that this intensive process could lead to emotional engagement as issues are debated and resolved.

Option 2: ISO

Pros

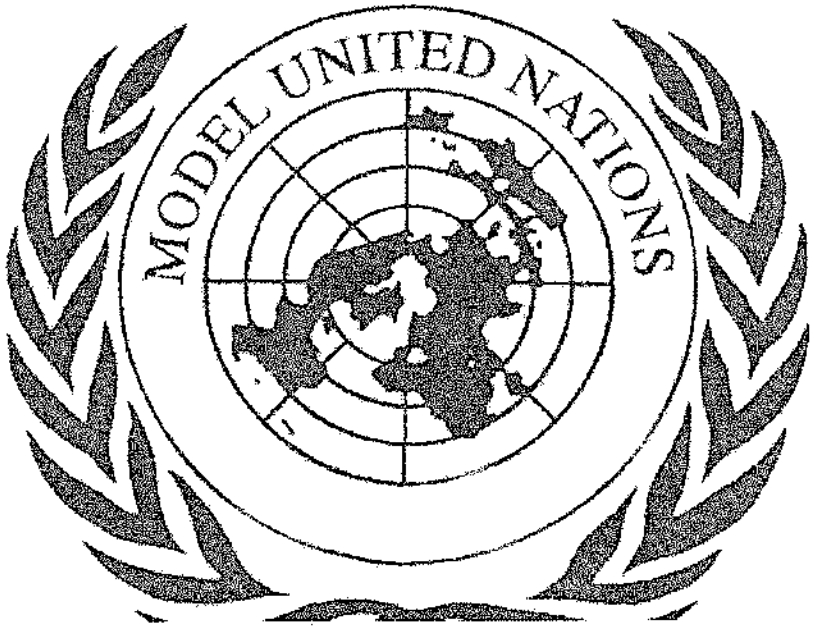
- Industry standard process used to gain buy-in and consensus on business process changes
- Step by step model enables participant's to agree on one step before proceeding to next.

Cons

- Lengthier engagement process, leading to higher costs and a delay in delivering business benefits. May result in concurrent project work creating duplication as common workflow is missing.
- A process oriented approach

Recommended Workshop Format

Model UN: Provides a unique and robust model that can be implemented across government to engage stakeholders in the resolution of complex issues.



NRS Authorization Workflow Engagement Timelines

s.13,s.17

NRS Authorization Workflow ask

- Endorsement of the NRS Authorization Workflow engagement model.
- Five day workshop to be held in late September /early October 2016.
- Each Ministry to select and provide names of participants (the delegates) by July 15 to NRPP.
- Empower your delegates to make binding decisions on the workflow for your Ministry.
- Confirmation of your active involvement during the engagement workshop sessions.

Contact Details

If you have further questions on any of these topics, please reach out to Marcin Zaranski at Marcin.Zaranski@gov.bc.ca who will forward your inquiry to the appropriate party.

Agenda

BRITISH COLUMBIA

Topic	Time
Welcome and Introductions	10 mins, 1:00-1:10
Overview – Blueprint, Operating Model, and Process Workflow	20 mins, 1:10-1:30
Transformation Principles Discussion	20 mins, 1:30-1:50
Sector Operating Model	20 mins, 1:50-2:10
Authorization Workflow Engagement Model	20 mins, 2:10-2:30

Fenton, Chrystal EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 11:28 AM
To: Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX
Cc: Craven, Paul EAO:EX; Bohn, Dominique EAO:EX; Carter, Rumon EAO:EX; Fenton, Chrystal EAO:EX; Rennert-May, Leya EAO:EX
Subject: RE: Clean Energy BC

Clean Energy BC was invited to participate in an EPIC briefing that was set up with IAIA and their affiliates. They have opted to participate in the joint briefing instead of having a standalone briefing. I will take the hold out of your calendars. Please let me know if you have any questions.

Kind regards,
S.

From: Jardine, Kevin EAO:EX
Sent: Thursday, June 23, 2016 12:24 PM
To: Carr, Michelle EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Bohn, Dominique EAO:EX; Carter, Rumon EAO:EX; Fenton, Chrystal EAO:EX; Rennert-May, Leya EAO:EX
Subject: Re: Clean Energy BC

Good idea...

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 23, 2016, at 10:50 AM, Carr, Michelle EAO:EX <Michelle.Carr@gov.bc.ca> wrote:

> Monica should attend with me.
>
> **Michelle Carr** | Assistant Deputy Minister
> Environmental Assessment Operations, Environmental Assessment Office
> Phone: 250-387-2307
>
> <image002.jpg>
>
> ---
>
> **From:** Loiacono, Sabrina EAO:EX
> **Sent:** Thursday, June 23, 2016 10:49 AM
> **To:** Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX; Craven, Paul EAO:EX; Bohn, Dominique EAO:EX; Carter, Rumon EAO:EX
> **Cc:** Fenton, Chrystal EAO:EX; Rennert-May, Leya EAO:EX
> **Subject:** Clean Energy BC

Just a heads up that Clean Energy BC has confirmed that they would like a briefing on EPIC. They have indicated that July 14th at 10-11:30am works on their end. I have put a hold in both Rumon and Michelle's calendar. Please let me know if you would like anyone else to attend.

S.

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Fenton, Chrystal EAO:EX

From: Higgs, Jeremy JTST:EX
Sent: Monday, June 27, 2016 11:36 AM
To: Haines, Kate EAO:EX; 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RE: RBT2 Panel presentations - JTSTL presentation
Attachments: June 28 Draft PPT presentation JTSTL LMIO.pdf

Good morning,

I am writing to submit a presentation to the Roberts Bank Terminal 2 Review Panel from the Ministry of Jobs, Tourism and Skills Training and Responsible for Labour (MJTSTL), Province of British Columbia for the Panel Orientation session tomorrow.

From the draft agenda for tomorrow, I note that the MJTSTL is not currently listed among the provincial government Ministries that will appear in-person tomorrow afternoon. I will be at the panel session tomorrow afternoon. Please let me know if there are any questions.

J.

Jeremy Higgs
Executive Director – Chief Labour Market Economist
Labour Market Information Office (LMIO)
Labour Market and Information Division
Ministry of Jobs, Tourism and Skills Training and Responsible for Labour
250-387-5631
Mobile: 250-217-9398

Fenton, Chrystal EAO:EX

From: Fradley, Adria N ENV:EX
Sent: Monday, June 27, 2016 11:30 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Haines, Kate EAO:EX; Zacharias, Mark ENV:EX; Carsen, Dannie CSCD:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
Subject: RE: RBT2 Panel presentations - CSCD Presentation

Good Morning,

Please see attached the Climate Action Secretariat slides for the June 28th Review Panel Orientation Session of the RBT2.



From: Haines, Kate EAO:EX
Sent: Friday, June 24, 2016 2:01 PM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX
Subject: RBT2 Panel presentations - update from EAO

Good afternoon,

I am writing to follow up with details regarding next week's presentations at the RBT2 federal review panel orientation session.

First, presentations are due in to the panel "no later than **Monday June 27, 2016 at 12:00 pm PST**. Presentations should be in powerpoint format. All submissions are to be sent to the Review Panel at Panel.RBT2@ceaa.gc.ca."

Please also copy your powerpoint presentation to the recipient list in this email so that we can all have a chance to review each other's submissions and have an opportunity to ask each other any questions of clarification on cross cutting issues.

Attached for your reference are EAO's draft deck, a table summarizing the key provincial contacts/presenters, and an email with some more details about the schedule for Tuesday's panel session.

Kevin Jardine will be circulating the response letter to the panel (coordinated by EAO this week) to his deputy colleagues later today – we are still waiting on one ministry's response.

Monica and I are both available this afternoon and Monday to connect on the phone and discuss anything that still requires clarification. Thanks for your hard work to pull this information together for the panel so quickly.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

<< OLE Object: Picture (Device Independent Bitmap) >>

Fenton, Chrystal EAO:EX

From: Haberl, Kevin J FLNR:EX
Sent: Monday, June 27, 2016 11:52 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX; Haines, Kate EAO:EX
Subject: As Requested: RBT2 Panel presentations - FLNRO
Attachments: RBT2 FLNR PPT - Jun 28.pptx

Good morning,

Please find attached the presentation from FLNRO to the panel tomorrow.

Thanks,

Kevin Haberl, RPF
Director, Resource Authorizations, South Coast
Ministry of Forests, Lands and Natural Resource Operations
200 – 10428 153 Street, Surrey, BC V3R 1E1

Office: 604-586-4420
Cell: 604-892-4662

Our Vision: Economic prosperity and environmental sustainability

Loiacono, Sabrina EAO:EX

From: Crozier, Bev ENV:EX
Sent: Monday, June 27, 2016 12:17 PM
To: ENV Executive Committee; ENV Ministerial Assistants; Jonker, Jennifer B ENV:EX; Barlow, John ENV:EX; Holms, Bruce ENV:EX; Hudson, Kimberley GCPE:EX; Murphy, Bernadette GCPE:EX; Bell, Danielle L GCPE:EX; Desaulnier, Vicki ENV:EX; Jackson, Vickie ENV:EX; Wheeler, Glenda J ENV:EX
Cc: ENV EXC Exec Br Support
Subject: Weekly FOI Reports
Attachments: Environment (MOE) 2016-06-26.pdf; Environment (MOE) CRTS 2016-06-26.pdf

Good afternoon

Attached please find the weekly FOI reports for your review / consideration.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Freedom of Information and Protection of Privacy

Information Access Operations

Executive Weekly FOI Report
Ministry of Environment

2016-06-20 to 2016-06-26
Request Type = All
Display Description for Personal Requests

Section 1

		General Requests								
		Currently Open	Open (this period)	Closed (this period)	Placed On-Hold	OIPC Review	Signed-Off (this period)	X-Govt (open)	X-Govt (new this period)	Overdue (open)
General	Business	10	1	0	2	0	1	0	0	1
	Individual	10	1	0	1	1	0	1	0	3
	Interest Group	15	0	0	1	2	1	0	0	3
	Law Firm	11	0	0	0	1	0	1	0	5
	Media	19	0	2	2	0	7	4	0	5
	Other Governments	0	0	0	0	0	0	0	0	0
	Other Public Body	0	0	0	0	0	0	0	0	0
	Political Party	8	0	1	0	0	2	3	0	3
	Researcher	1	0	0	0	0	0	0	0	0
	Total	74	2	3	6	4	11	9	0	20

		Personal Requests						
		Currently Open	Open (this period)	Closed (this period)	Placed On-Hold	OIPC Review	Signed-Off (this period)	Overdue (open)
Personal	Total	0	0	0	0	1	0	0

Section 2
- Sorted by newest Start Date
- Request bolded if received during reporting period

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-62545	Jun 23, 2016	Aug 08, 2016	Request for Docs Sent	Individual	Barbon, Tyler	Regarding the herbicide Glyphosate, brand names RoundUp, VisionMax, etc. that have Glyphosate as the primary active ingredient: The quantity of this herbicide applied to BC forests on a yearly basis from the first year of application to present.	Call - CFR Sent
MOE-2016-62539	Jun 22, 2016	Aug 05, 2016	Request for Docs Sent	Business	Peddle, Jennifer	All environmental records including general correspondence, occurrence reports, abatements, orders, spills, investigations/prosecutions, waste generator number/class, certificates of approval and soil/groundwater/remediation reports pertaining to: 659 Clyde Avenue, West Vancouver. (Date Range for Record Search: From 01/01/1985 To 06/22/2016)	Call - CFR Sent
MOE-2016-62506	Jun 17, 2016	Aug 02, 2016	Request for Docs Sent	Interest Group	Levesque, Evan	The wildlife conflict report filed by Conservation Officer Micah Kneller for the incident involving a bear cub near Dawson Creek; on or about May 6, 2016, as well as other communications between Officer Kneller and his superiors as they relate to this incident. (Date Range for Record Search: From 05/05/2016 To 06/17/2016)	Call - CFR Sent
MOE-2016-62491	Jun 16, 2016	Jul 29, 2016	Request for Docs Sent	Individual	Kremler, Launa	Records regarding NewPro's major permit amendment including documents, email, postal correspondence, meeting and telephone notes, reports, studies, modelling results, personal communications but excluding permit PA-6099 and SLR's draft technical report. (Date Range for Record Search: From 01/01/2013 To 06/16/2016)	Fee - Estimate - Received
MOE-2016-62489	Jun 16, 2016	Jul 29, 2016	Request for Docs Sent	Interest Group	Sorboe, Rene	Regarding reparations due to flood events on the Coquihalla River for the flood years including but not limited to 1989, 1991, 1995, 1999-2000, and 2006: Records indicating the costs for footbridge replacements and repairs within Coquihalla Canyon Provincial Park; Records indicating the costs for any other capital or operating budgets spent on river damage to infrastructure; Any photographic records of the above. (Date Range for Record Search: From 01/01/1989 To 12/31/2007)	Call - CFR Sent

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-62480 XGR-2016-62467	Jun 15, 2016	Jul 28, 2016	Request for Docs Sent	Media	Shiplack, Eric	Regarding Twitter - @LiveSmartBC: Names and titles of staff and contractors who are currently authorized to access Government of British Columbia Twitter accounts and names and titles of staff and contractors who conceive, create, produce and publish the content - text, graphics and photos, for those accounts; The most-recent version of the content style guide and operations manual for use of Government of British Columbia Twitter accounts. (Date Range for Record Search: From 04/01/2015 To 05/16/2016)	Call - CFR Sent
MOE-2016-62443	Jun 14, 2016	Jul 27, 2016	Request for Docs Sent	Business	Barbon, Tyler	All public records associated with 2266 Nicholson Street South, Prince George. (Date Range for Record Search: From 01/01/1990 To 06/07/2016)	Sign - Sent - Revised
MOE-2016-62442	Jun 13, 2016	Jul 26, 2016	Request for Docs Sent	Interest Group	Kremler, Launa	Regarding the new conflict wildlife policy that was reported in the Vancouver Sun on June 8, 2016: All records including but noted limited to briefing notes, reports, email communications, meeting notes, records of conversations, etc. held by the Minister's office and Deputy Minister's office; Communications between Dan Peterson and members of the Conservation Officer Service management team. (Date Range for Record Search: From 05/01/2015 To 06/08/2016)	Records - Reviewing
MOE-2016-62431	Jun 13, 2016	Jul 26, 2016	On Hold-Fee Related	Individual	Graves, Debra	All correspondence, email, letters, phone and in-person conversation notes, permits between the province and the cities of Trail and Castlegar and the Regional Districts of Kootenay Boundary and Central Kootenay regarding the disposal of snow into the Columbia River. (Date Range for Record Search: From 01/01/1990 To 06/01/2016)	Fee - Estimate - Sent
MOE-2016-62345	Jun 08, 2016	Jul 21, 2016	On Hold-Fee Related	Business	Kremler, Launa	All related notes, memos, conversations, correspondence, documents, pollution abatement orders, testing, inspection reports, inter-ministry memos, site visit reports and emails specific to the Silver Queen mine, tailings and property near Owen Lake area, south of Houston, BC, owned and/or operated by New Nadina Explorations Limited. (Date Range for Record Search: From 01/01/2013 To 06/06/2016)	Fee - Estimate - Sent

Section 2
- Sorted by newest Start Date
- Request bolded if received during reporting period

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-62418 XGR-2016-62320	Jun 07, 2016	Jul 20, 2016	Request for Docs Sent	Law Firm	Van Schalkwyk, Charlotte	All documents and draft documents in any form or medium including but not limited to correspondence, memoranda, emails, electronic message systems e.g blackberry messenger, text message, i-message etc., reports, notes of discussions or calendar entries created on or after January 1, 2013 in the possession or control of the Ministry that have as a recipient, a carbon copy cc, or sender any one of the [specified individuals], in each case by name or by office, that mentions in any way: Taseko Mines Limited, Taseko, TKO, TML, TM, or New Prosperity Project, New Prosperity, Prosperity, NP, NPP, or, any abbreviations, acronyms, variations, nicknames, reference names or any other means. (Date Range for Record Search: From 01/01/2013 To 06/07/2016)	Call - CFR Sent
MOE-2016-62378 XGR-2016-62326	Jun 07, 2016	Jul 20, 2016	Request for Docs Sent	Political Party	Kremler, Launa	The Assistant Deputy Ministers' Outlook Calendar for the timeframe of April 1, 2016 to May 31, 2016.	Records - Reviewing
MOE-2016-62324	Jun 07, 2016	Jul 20, 2016	Request for Docs Sent	Individual	Bonneau, Andrew	Regarding PID 023-293-241 Block A, Section 34, TP5, Range 4 Coast District: Any records, specifically legal easements or right of ways, disposition of property from Crown Land, water/agricultural/road applications. (Date Range for Record Search: From 01/01/1995 To 06/07/2016)	Call - CFR Sent
MOE-2016-62295 XGR-2016-62278	Jun 03, 2016	Jul 18, 2016	Request for Docs Sent	Political Party	Kremler, Launa	A summary document showing the Cliff number, date, and title/issue of all briefing notes, issues notes and advice to the Minister/Minister of State/Premier that were prepared between April 1, 2016 – May 31, 2016.	Call - Reminder 1
MOE-2016-62249	Jun 02, 2016	Jul 15, 2016	Request for Docs Sent	Interest Group	Sorboe, Rene	A list of formal complaints regarding incidents which involved animals filed against the Conservation Officer Service and individual Conservation Officers including a brief summary of the complaint, the complaint file number or applicable reference number, the region, animal, and/or action taken at the time of the complaint. (Date Range for Record Search: From 01/01/2011 To 06/01/2016)	Fee - Estimate - Received

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-62248	Jun 02, 2016	Jul 15, 2016	Request for Docs Sent	Business	Barbon, Tyler	A copy of any related documents subsequent to the Ministries' formal request in November 2015 that Chieftain Metals file a Compliance Plan; Any follow-up letters from or to the Ministries, plan approval, required amendments, meetings with representatives from Chieftain or their designates, agendas, notes, emails, and/or minutes. (Date Range for Record Search: From 11/02/2015 To 06/02/2016)	Call - Awaiting Further Records
MOE-2016-62223	May 31, 2016	Jul 14, 2016	Request for Docs Sent	Interest Group	Van Schalkwyk, Charlotte	Any and all communications, including emails, briefing notes, hand written notes, records of phone calls, etc., relating to policy or changes in policy for translocating or euthanizing cougars by the Conservation Officer Service. (Date Range for Record Search: From 01/01/2015 To 05/31/2016)	Call - Fees Paid CFR Sent
MOE-2016-62206	May 30, 2016	Jul 12, 2016	On Hold-Fee Related	Media	Graves, Debra	Any emails, briefing notes, recorded phone conversations, notes, files, or instant messages pertaining to [redacted] s.22 y or her interactions, conversations, and interviews with the Conservation Officer Service and Ministry communications staff, including Chris Doyle and David Karn; Any letters, emails, or formal submissions addressed to Jennifer Jonker from [named individual]; Any emails, briefing notes, recorded phone conversations, notes, files, or instant messages about or pertaining to [named individual] sent from Jennifer Jonker. (Date Range for Record Search: From 01/01/2015 To 05/30/2016)	Fee - Estimate - Sent

Section 2
- Sorted by newest Start Date
- Request bolded if received during reporting period

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-62157	May 25, 2016	Jul 07, 2016	On Hold-Fee Related	Media	Shiplack, Eric	Notes, files, emails, briefing notes, records of phone calls, and instant messages related to North Island Gazette, and the cost of wildlife euthanization only, West Coast; any letters or emails addressed from named individual: s 22 o Jennifer Jonker. The emails would be restricted from July 2015 to present, pertaining to issues with the COS, specifically a letter outlining several concerns with COS culture and operations to Jennifer Jonker; Incident reports for wildlife killed, euthanized and/or tranquilized/relocated by the Conservation Officer Service as a result of nuisance and/or dangerous wildlife reports or wildlife/human conflicts across B.C. including reports about the destruction, and/or disposal of carcasses from each incident involving an animal fatality and records about the relocation for those animals that were tranquilized and also including the individual officer who carried out the actions, where they were carried out, and where that officer is assigned; Notes, files, emails, briefing notes, records of phone calls, and instant messages between or mentioning any combination of the following people: Micah Kneller, Darryl Struthers, Tony Hamilton, Angelika Langen, and [named individual] from May 5 2016 to present date, subject matter of the emails would be the euthanization of a bear cub near Dawson Creek on Fri. May 6.; Any information available on how Conservation officers are trained with regards to the relocation, rehabilitation, transport, and euthanization of wildlife, including reference to any chemicals or disposal methods. (Date Range for Record Search: From 01/01/2015 To 05/24/2016)	Fee - Estimate - Sent
MOE-2016-62153	May 24, 2016	Jul 08, 2016	Request for Docs Sent	Interest Group	Graves, Debra	Any and all communications regarding bear cubs given to North Island Wildlife Recovery Association and all the iterations of their name by [named individual] relating to the use of tracking equipment and/or the release of said bears by North Island Wildlife Recovery Association. (Date Range for Record Search: From 01/02/2015 To 05/24/2016)	Sign - Sent

Section 2
- Sorted by newest Start Date
- Request bolded if received during reporting period

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-62151	May 24, 2016	Aug 18, 2016	Request for Docs Sent	Researcher	Levesque, Evan	Copies of all documents including contracts, RFPs, e-mails, reports, audits, etc., regarding the funding provided by the Ministry to Tides Canada in 2015 as reported by Tides in the federal lobbyist registry. (Date Range for Record Search: From 01/01/2015 To 12/31/2015)	Call - Reminder 1
MOE-2016-62123	May 19, 2016	Jul 04, 2016	Request for Docs Sent	Law Firm	Peddle, Jennifer	All records including but not limited to e-mails, correspondence and documents relating to the contamination of lands at Contaminated Sites Site Registry Site ID 12034 - 221 and 275 West 5th Avenue, Vancouver, commonly known as Hudson Plating, and to any properties or land on to which the contamination has migrated including Site ID 15901 - 303 West 5th Avenue and the city roadways identified as Site ID 15900 - West 5th and Alberta Streets and may include Site ID 15898 - 310 West 4th Avenue and Site ID 15898 - 2015 Columbia Street; All records including but not limited to e-mails, correspondence and documents relating to measures required by the Ministry to address similar contamination issues faced by other properties situated within the boundaries of Cambie Street, 2nd Avenue, Main Street and Broadway. (Date Range for Record Search: From 01/01/2013 To 05/19/2016)	Call - Narrowing/Clarifying
MOE-2016-62121	May 18, 2016	Aug 15, 2016	Request for Docs Sent	Media	Kremler, Launa	Regarding Allen Langdon of Multi Material BC: All correspondence received by Kris Ord, Executive Director, Environmental Standards Branch and Bob McDonald, Manager, Waste Prevention from Allen Langdon; All of Kris Ord's and Bob McDonald's correspondence to Allen Langdon; All correspondence between Kris Ord and Bob McDonald naming Allen Langdon (Date Range for Record Search: From 02/01/2016 To 05/18/2016)	Call - CFR Sent
MOE-2016-62120	May 18, 2016	Jun 30, 2016	Request for Docs Sent	Media	Kremler, Launa	The daily calendar and agenda for Louise LeBoutillier, Compliance Officer, Waste Prevention. (Date Range for Record Search: From 03/01/2016 To 05/18/2016)	Sign - Sent
MOE-2016-62119	May 18, 2016	Jun 30, 2016	Request for Docs Sent	Media	Kremler, Launa	The daily calendar and agenda for Bob McDonald, Manager, Packaging and Printed Paper Implementation. (Date Range for Record Search: From 03/01/2016 To 05/18/2016)	Sign - Sent

Section 2
- Sorted by newest Start Date
- Request holded if received during reporting period

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-62118	May 18, 2016	Aug 15, 2016	Request for Docs Sent	Media	Kremler, Launa	All letters, which name compliance officer Louise LeBoutillier, to any known or suspected non-compliant party, warning it to follow Recycling Regulation 449/2004 or issuing fines or penalties to any entity for not following said regulation. (Date Range for Record Search: From 01/01/2014 To 05/18/2016)	Call - CFR Sent
MOE-2016-62087	May 17, 2016	Jun 29, 2016	Request for Docs Sent	Business	Peddle, Jennifer	All File Contents Retrieval Application forms that were submitted to request information such as reports, letters, etc., regarding MoE Site ID 2739. (Date Range for Record Search: From 10/01/2015 To 05/17/2016)	Sign - Sent
MOE-2016-62077	May 16, 2016	Jun 28, 2016	Request for Docs Sent	Media	Graves, Debra	All RAPP reports with the location in Abbotsford BC; Exclude those submitted by the City of Abbotsford with the [specified] Enforcement Routing Sheet #s. (Date Range for Record Search: From 01/01/2011 To 05/01/2016)	Sign - Sent
MOE-2016-62072	May 16, 2016	Jun 28, 2016	Request for Docs Sent	Media	Graves, Debra	Any document that lists or records fines levied and any other enforcement orders for incidents reported in Abbotsford via the RAPP process, including identifiers linking the fines with the incidents such as copies of the Enforcement Routing Sheet per incident. (Date Range for Record Search: From 01/01/2015 To 12/31/2015)	Sign - Sent
MOE-2016-62062	May 16, 2016	Jun 28, 2016	Request for Docs Sent	Media	Shiplack, Eric	All advisory, warning, compliance and enforcement letters sent by the Ministry to companies and individuals that are not currently complying with the provincial Recycling Regulation - B.C. Reg. 449/2004 - and the PPP program. (Date Range for Record Search: From 05/01/2014 To 05/15/2016)	Sign - Sent
MOE-2016-62097 XGR-2016-62091	May 13, 2016	Aug 10, 2016	Request for Docs Sent	Political Party	Levesque, Evan	All correspondence including attachments and cc'd messages, received by the Minister's office from members of the government caucus or their constituency offices. The Outlook portion of the search will be conducted by a keyword search on "@leg.bc.ca". (Date Range for Record Search: From 01/01/2016 To 05/12/2016)	Call - Reminder 1
MOE-2016-62044	May 13, 2016	Jun 27, 2016	Request for Docs Sent	Political Party	Peddle, Jennifer	All correspondence between the Minister or Minister's office and any of John Les, Dmitri Pantazopoulos, or any representative or employee of Belkorp Environmental or BFI Canada. (Date Range for Record Search: From 09/01/2014 To 11/01/2014)	Sign - Sent

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-62027	May 12, 2016	Jun 24, 2016	On Hold-Fee Related	Interest Group	Van Schalkwyk, Charlotte	The kill data and month end reports pertaining to the disposal of bears involving Conservation Officers employed in the Port Hardy area during the time period in question. (Date Range for Record Search: From 01/01/2006 To 01/01/2010) (Date Range for Record Search: From 01/01/2006 To 01/01/2010)	Fee - Estimate - Narrowing
MOE-2016-62014	May 11, 2016	Aug 12, 2016	Request for Docs Sent	Interest Group	Shiplack, Eric	Any and all communications regarding the incident of a bear cub in the Peace Region on May 8th, 2016 including but not limited to emails, logs of telephone communications, hand written notes, conflict reports, and briefing notes. (Date Range for Record Search: From 05/01/2016 To 05/11/2016)	Call - Fees Paid CFR Sent
MOE-2016-62013	May 11, 2016	Aug 04, 2016	Request for Docs Sent	Interest Group	Kremler, Launa	Documentation or data representing the distribution of funds and budgets within the Conservation Officer program, the number of Conservation Officers working in the field and within office positions and any reference to bonuses, increases, financial incentives etc. for Conservation Officers within the Ministry. (Date Range for Record Search: From 01/01/2013 To 05/11/2016)	Fee - Waiver - Request Received
MOE-2016-62011	May 11, 2016	Aug 04, 2016	Request for Docs Sent	Interest Group	Kremler, Launa	Copies of notes and conflict reports between Conservation Officer Micah Kneller, his supervisors, and others within the Ministry as they relate to the execution of his duties as a conservation officer. (Date Range for Record Search: From 01/01/2016 To 05/11/2016)	Fee - Waiver - Request Received

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- Sorted by newest Start Date
- Request bolded if received during reporting period

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-62001	May 10, 2016	Aug 05, 2016	Request for Docs Sent	Individual	Graves, Debra	A copy of the following reports as referenced in the attached email sent by AJ Downie, Director, Authorizations - South on January 22, 2016 to Cobble Hill Holdings Ltd. relating to Permit 105809: All status/progress updates, including additional detailed information with regard to implementation of the Stantec reports' recommendations, and the Stantec non-contact water management review, in accordance with the schedule in SIRM's status report dated January 15, 2016 (page 2), on the 15th and last day of each month; Interim updated and revised EPM/OMS, including interim updated water management plan, to be submitted by March 31,2016; Proposed scope, terms of reference, description and schedule for the Stantec contact water management review, to be submitted by March 31,2016; Draft Stantec non-contact water management review report, to be submitted by May 2016. (Date Range for Record Search: From 01/16/2016 To 05/06/2016)	Peer Review
MOE-2016-61981	May 09, 2016	Aug 04, 2016	Request for Docs Sent	Interest Group	Wilson, John	Any correspondence, emails, memoranda, reports to or from Michael Shepard and the following individuals: [named individuals]; Kerri Skelly; Alan McCammon; Janet Barrett; Chris Rolfe; Miles Drew; any other Ministry of Environment or Environmental Assessment Office employee which involve or mention any of the following: Salt Spring Island; Salt Spring Island Rod and Gun Club; [named individuals]; Islands Trust; Long Harbour Road; RCMP; CRD. (Date Range for Record Search: From 01/01/2014 To 05/05/2016)	Records - Reviewing

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-61977	May 09, 2016	Aug 04, 2016	Request for Docs Sent	Media	Graves, Debra	Regarding Pacific Northwest LNG's proposed export terminal at Lelu Island: Internal, unpublished estimates of the environmental impacts of the project - effects on water, air, fish, global warming, spills, etc; Internal assessments of the Canadian Environmental Assessment Agency's draft report issued February 2016 and of the 130 scientists' protest letter and viewpoints against it - their quality, accuracy, implications, etc; Internal assessments of the Pembina Institute report issued May 2016 - its quality, accuracy, implications, etc. (Date Range for Record Search: From 01/01/2016 To 05/09/2016)	Peer Review
MOE-2016-61956	May 06, 2016	Aug 03, 2016	Request for Docs Sent	Media	Shiplack, Eric	All records - including correspondence to or from the Ministry or Fisheries and Oceans Canada, other correspondence, records on fines, or inspection reports - relating to suspected infractions including Agricultural Land Reserve compliance issues at: 28231 58th Ave. HQ Mushroom Farm, 28319 58th Ave. Avina Fresh Produce - Huu Quach, 28230 58th Ave. Delfresh Mushroom Farm - Huu Quach, Avina Mushroom Farm. (Date Range for Record Search: From 01/01/2016 To 05/06/2016)	Records - Ready for Review
MOE-2016-61955	May 06, 2016 **Open OVERDUE**	Jun 20, 2016	Request for Docs Sent	Law Firm	Kremler, Launa	A copy of the contract between the Ministry and Shuswap Adams Parks Ltd for the BC Parks facility management of the Cariboo Bowron Lake Park, RFP BCP2014-01-A.	Sign - Sent
MOE-2016-62135 XGR-2016-62114	May 05, 2016	Aug 02, 2016	Request for Docs Sent	Media	Shiplack, Eric	Pertaining to the Minister, Deputy Minister(s), and chief of staff(s)' use of the mobile phone service commonly referred to as text messaging or SMS: A transcript of the SMS conversations that each person participated in. (Date Range for Record Search: From 04/24/2016 To 04/30/2016)	Records - Reviewing

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- Sorted by newest Start Date
- Request bolded if received during reporting period

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-61969	May 05, 2016	Aug 02, 2016	Request for Docs Sent	Individual	Bonneau, Andrew	All applications and permits and all correspondence in any form including emails received from or sent to The Town of Gibsons or any of the companies or individuals listed below, referencing or concerning a development known as the George Hotel and Residences - and/ or Hyak Marine Site, located at 377-385 Gower Pt Rd in Gibsons: Art Phillips and/or Art Phillips and Associates Inc., KMF Holdings, Klaus Fuerniss Enterprises Inc., Hyak Marine, Hyak Marine Services, Balanced Environmental. (Date Range for Record Search: From 03/14/2016 To 05/04/2016)	Sign - Sent
MOE-2016-61937	May 04, 2016	Jul 21, 2016	Request for Docs Sent	Media	Levesque, Evan	Copies of Briefing Notes as referenced by Cliff numbers 293478, 294108, 293994, 293759, 295130, 294084, 293958, 294507, 295074, 293559, 294370.	Consult - with PA for Harms
MOE-2016-61889	Apr 29, 2016	Jul 27, 2016	Request for Docs Sent	Business	Wilson, John	Any and all records including emails, memos, briefing notes & decision notes regarding a request for a renewal or issuance of Licence of Occupation File No. 1406547 and Licence of Occupation File No. 1405508, including a decision by the Minister of Environment under the Cowichan Estuary Environmental Management Plan and/or Order-in-Council 1652/86 and any consideration by the Cowichan Estuary Environmental Management Committee. (Date Range for Record Search: From 04/09/2015 To 04/29/2016)	Call - Fees Paid CFR Sent
MOE-2016-61876	Apr 27, 2016	Jul 22, 2016	Request for Docs Sent	Law Firm	Kremler, Launa	Copies of any and all Odour Management Plans for Revolution Organics, LP's operations aka Northwest Organics Limited Partnership Ltd at Botanie Valley Soil Farm, operating under Permit #104217. (Date Range for Record Search: From 01/01/2010 To 04/26/2016)	Records - Reviewing

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-61827	Apr 22, 2016	Jul 19, 2016	Request for Docs Sent	Individual	Wilson, John	Regarding Regulations Amending the Vessel Operation Restriction Regulations Statutory authority Canada Shipping Act, 2001 - Department of Transport http://gazette.gc.ca/rp-pr/p1/2016/2016-04-02/html/reg2-eng.php : All emails and communications between BC Government elected officials and/or employees, contractors, consultants or duly appointed representatives regarding this amendment ; All meeting notices published or sent, attendance lists, meeting notes transcribed by hand whether on post it note, binders, note books etc or electronically including recordings; All raw and calculated data and information as well as photographs and any other information used in the research supporting this amendment; All RFP's, RFP award detail information, contracts, agreements, scopes of work, and invoices associated with the gathering of data and preparation of this amendment. (Date Range for Record Search: From 05/01/2015 To 04/22/2016)	Records - Reviewing
MOE-2016-61790	Apr 21, 2016	Jul 18, 2016	Request for Docs Sent	Political Party	Graves, Debra	Operation, Maintenance, and Surveillance – QMS - Manual for Cobble Hill Holdings in relation to Mining Permit for Shawnigan Lake site for permit Q-8-94 (Date Range for Record Search: From 01/01/2015 To 04/14/2016)	Peer Review
MOE-2016-61787	Apr 21, 2016	Jul 18, 2016	Request for Docs Sent	Business	Bonneau, Andrew	The full text, including name of author, of the following reports submitted to the Minister pertaining to the Jumbo Glacier Resort in 2015: February 3rd 2015 Jumbo Glacier Resort avalanche and Sub Start 3Feb2015; March 24 2015 Jumbo Glacier Resort Day Lodge Avalanche Risk Zoning Report 19March2015 FINAL; May 6th 2015 IN_EAO_Jumbo Glacier Resort and avalanche Sub Start_27Apr2015-formatted; May 11th 2015 Jumbo Glacier Report Options. (Date Range for Record Search: From 01/01/2015 To 12/31/2015)	Records - Ready for Review
MOE-2016-61767	Apr 20, 2016	Jul 18, 2016	Request for Docs Sent	Business	Graves, Debra	2013, 2014 and 2015 Annual Status Report for Tervita Northern Rockies Landfill P-16078 and Tervita Silverberry P-17150. (Date Range for Record Search: From 01/01/2013 To 12/31/2015)	Sign - Sent

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Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-61543	Apr 08, 2016	Jan 06, 2017	Request for Docs Sent	Law Firm	Kremler, Launa	All records pertaining to BC Conservation Officer Service file number 2013-04838 – the entire file up to [April 8, 2016].	Records - Reviewing
MOE-2016-61506 XGR-2016-61501	Mar 24, 2016 **Open OVERDUE**	Jun 21, 2016	Request for Docs Sent	Individual	Graves, Debra	All records located in the Office of the Premier and the Minister and Deputy Ministers Office, regarding the Lelu Island LNG project and the Lax Kw'alaams Band Council. (Date Range for Record Search: From 01/01/2014 To 03/24/2016)	Peer Review
MOE-2016-61342	Mar 10, 2016	Jul 27, 2016	Request for Docs Sent	Law Firm	Levesque, Evan	A copy of all records in the custody or control of the Ministry relating to a construction and commercial waste landfill - the Landfill - operating on lands having a civic address of 24647 Lougheed Highway, Maple Ridge BC, legal description Lot 9 in Langley BC, Indian Reserve No. 5, BC, as shown on Plan of Survey No. 75992 deposited in the Canada Lands Surveys Records in Ottawa, Ontario - the Subject Lands - including: All records of communications as between or among any representative of the Ministry and representatives of Atlantic Waste Systems Ltd., including, but not limited to Mr. Brent Mann; All internal records of communications including emails, letters and notes of telephone conversations between and among representatives of the Ministry in relation to the Landfill or the Subject Lands; All internal emails, letters, notes, memoranda, or other documents to and from representatives of the Ministry in relation to the Landfill or the Subject Lands. (Date Range for Record Search: From 01/01/1993 To 03/10/2016)	Call - Fees Paid CFR Sent
MOE-2016-61279 XGR-2016-61262	Mar 10, 2016 **Open OVERDUE**	Jun 07, 2016	Request for Docs Sent	Media	Graves, Debra	Copies of any and all outgoing email correspondence sent from Ministry of Environment chief of staff Martina Kapac de Frias, including any and all email addresses used, excluding attachments. Date range is February 1 - 8, 2016.	Sign - Sent - Revised
MOE-2016-60980	Mar 03, 2016	Jul 13, 2016	Request for Docs Sent	Interest Group	Van Schalkwyk, Charlotte	A copy of the public comments received in relation to the South Okanagan National Park, as well as correspondence and emails between the public, MLA Larson and the ministry regarding the consultation process. (Date Range for Record Search: From 08/13/2015 To 03/03/2016)	Records - Reviewing

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-60867	Feb 23, 2016	May 19, 2016	Request for Docs Sent	Interest Group	Bonneau, Andrew	The following documents held by the Ministry regarding the reporting records of the Mount Polley Mining Corporation: All Water Management Plans submitted annually, starting in 1998, ie 1998 Water Management Plan, etc.; The full 1997 to 2000 Annual Environmental Reports, Effluent Permit 11678; The full 2001 to 2010 Annual Environmental and Reclamation Reports. (Date Range for Record Search: From 01/01/1997 To 12/31/2010)	Records - Ready for Review
	Open OVERDUE						
MOE-2016-60837 XGR-2016-60833	Feb 16, 2016	Jun 24, 2016	Request for Docs Sent	Media	Wilson, John	All records pertaining to the Greenhouse Sector Carbon Tax Relief Program including all reports and communications related to the government's rationale for the program; All records related to the 2012 temporary carbon tax relief grant program for commercial greenhouse vegetable and floriculture growers; All emails, records and minutes from meetings, records of phone calls and all reports related to the Greenhouse Sector Carbon Tax Relief Program; All records and communication pertaining to the individuals and businesses that have applied for, and been granted, the Greenhouse Sector Carbon Tax Relief Program; Any records of communication between any member of government and any commercial greenhouse grower in the province of BC; Any record of communication between the government of BC and the Pacific Institute for Climate Solutions regarding the 2014 report "The Effect of British Columbia's Carbon Tax on Agricultural Trade' including any communication with the authors of the report: Nicholas Rivers, University of Ottawa and Brandon Schaufele, Western University. (Date Range for Record Search: From 01/01/2010 To 02/15/2016)	Sign - Sent - Revised
	Open OVERDUE						

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Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-50767	Feb 10, 2016	Aug 08, 2016	Request for Docs Sent	Law Firm	Wilson, John	Copies of the following: all environmental consultant reports related to contamination at: Block 3, District Lot 275 Kootenay Land District - Block 4, District Lot 275, Kootenay Land District, Except Plan SRW 14293 - Lot "A", Block 5, District Lot 275, Kootenay Land District NEP 23118 - Block 7, District Lot 275, Kootenay Land District - Parcel "A", Block 6W, District Lot 275, Kootenay Land district; Phase 1 Environmental Site Assessment, Former HB Mine Property, Salmo, BC. Prepared by Conestoga-Rovers & Associates, September 2005; 2005/2006 Annual Report, Permit M-218, HB Mine Tailings Storage Facility, Salmo, British Columbia. Prepared by Conestoga Rovers & Associates, January 2006; Operation, Maintenance and Surveillance Manual, HB Mine Tailings Storage Facility, Salmo BC. Prepared by Conestoga-Rovers & Associates, January 2006; 2007 Annual Report, HB Mine Tailings Storage Facility, Permit M-218. Conestoga-Rovers & Associates, May 2008; Annual Operations and Monitoring Reports, Central Landfill Salmo, BC, for the years: 2009, 2011, 2012, 2013, 2014 and 2015; Annual Reclamation Reports, HB Mine Tailings Storage Facility for: 2011, 2012 and 2013; 2005 Design and Operation Plan Central Landfill Salmo, BC. Prepared by Conestoga-Rovers & Associates; Ministry of the Environment, Permit No. PE-1853 issued under the Waste Management Act for the following dates related to amendments: February 7, 1973, November 2, 1976 and March 15, 1982; All letters related to written notifications advising of potential migration to neighbouring properties for site ID 4228, 8185 and 8135 on the BC Online Site Registry, including any letters from a [named individual], or another person, setting out any expectations respecting potential migration of contamination to neighbouring property owners. (Date Range for Record Search: From 01/01/2002 To 02/10/2016)	Records - Reviewing

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-60740	Feb 10, 2016 **Open OVERDUE**	Jun 06, 2016	Request for Docs Sent	Individual	Van Schalkwyk, Charlotte	A copy of all the public submissions received via the online submission process, as well as correspondence/letters received from the public and stakeholders, regarding the national park in the South Okanagan. Approximately 400 (plus) online submissions and 210 letters received.	Sign - Sent - Revised
MOE-2016-60630	Feb 04, 2016	Jun 08, 2016	On Hold-Fee Related	Business	Kremler, Launa	All historical records not available through the online BC Site Registry services or Site Information Request Application, and pertaining to historic land uses and operations, underground or aboveground storage tanks, petroleum product piping and dispensing facilities, fill depositions, hazardous and contaminated waste, environmental incidents and any other environmentally-related issues that have occurred at the Prince Rupert Harbor within approx. 500 m of the intersection of Water Street and 11th Street, or are related to Shell Oil Company, going back as far as possible/available. (Date Range for Record Search: From 01/01/1900 To 02/03/2016)	Fee - Balance - Awaiting Payment
MOE-2016-60383	Jan 19, 2016 **Open OVERDUE**	Apr 15, 2016	Request for Docs Sent	Interest Group	Kremler, Launa	All correspondence and documents of the Ministry of Environment in respect to the Revolution Organics Compost Operation at Lytton, B.C., including correspondence with Revolution Organics Inc. Partnership Revolution Infrastructure Inc., and Revolution Ranch Inc. (Date Range for Record Search: From 06/01/2015 To 01/18/2016)	Sign - Sent
MOE-2016-60088	Jan 11, 2016 **Open OVERDUE**	Apr 07, 2016	Request for Docs Sent	Media	Edwards, Gerry	Regarding the announcement and news release of Dec. 17, 2015 - Government takes action on Chief Inspector of Mines' recommendations - about the Mount Polley Mine incident report, involving Bill Bennett and Al Hoffman: the Event Proposal including Visual Messages, Written Messages, Rollout, Media Plan, Strategic Communications, Media Relations, Q&As and Event Information/Speaking Notes; Records about the scheduling of the news release and news conference and the creation of quotes contained in the news release and other content. (Date Range for Record Search: From 11/23/2015 To 12/18/2015)	Sign - Sent

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Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2016-60110	Jan 08, 2016	Apr 05, 2016	Request for Docs Sent	Political Party	Van Schalkwyk, Charlotte	Any records related to the proposed South Okanagan National Park, including but not limited to any correspondence between the Minister's office and MLA Linda Larson. (Date Range for Record Search: From 12/01/2015 To 01/08/2016)	Consult - Internal
	Open OVERDUE						
MOE-2016-60075	Jan 07, 2016	Apr 05, 2016	Request for Docs Sent	Political Party	Bonneau, Andrew	All correspondence between the Mount Polley Mining Corporation or Imperial Metals and the Ministry of Environment and the Ministry of Energy and Mines regarding water permitting for the Mount Polley mine. (Date Range for Record Search: From 01/01/2006 To 08/04/2014)	Call - CFR Sent
	Open OVERDUE						
MOE-2016-60072	Jan 07, 2016	Apr 05, 2016	Request for Docs Sent	Media	Bonneau, Andrew	Any communications and correspondence between Mount Polley Mining Corporation - Imperial Metals - and the Ministry of Environment, Chief Inspector of Mines, and the Ministry of Energy & Mines regarding a water discharge permit that was requested by the company for the Mount Polley mine in 2006, specifically: documentation that would include the original water discharge permit that was requested in 2006, and any subsequent communication or correspondence that might explain the delay in approving the permit -- for example - any follow-up letters from either the company or the Chief Inspector of Mines or the Ministry of Energy & Mines to or from the Ministry of Environment with respect to the request for a water discharge permit, and any communications from the Ministry of Environment that might explain why the permit was not granted until 2012; any communication that would have followed a subsequent request for an amendment to the original permit. (Date Range for Record Search: From 01/01/2006 To 01/07/2016)	Call - CFR Sent
	Open OVERDUE						
MOE-2016-60042	Jan 06, 2016	Jun 10, 2016	Request for Docs Sent	Business	Bonneau, Andrew	Relating to Port Harvey Property, Lot DL498, PID: 009909001, Property Holder - [specified individual]: All complaints, including the reason for complaint; what the complaint is regarding; origin of complaint; date of complaint, if they have been submitted by local or foreign citizens; any and all information of the complainant that can be released. (Date Range for Record Search: From 01/01/2013 To 01/06/2016)	Sign - Sent
	Open OVERDUE						

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2015-54215	Dec 10, 2015	Mar 09, 2016	Request for Docs Sent	Individual	Bonneau, Andrew	All documentation and information referring to and/or regarding the short term water management plan submitted by Mount Polley Mining Corporation. (Date Range for Record Search: From 01/01/2015 To 12/10/2015)	Consult - Internal
	Open OVERDUE						
MOE-2015-53859	Nov 23, 2015	May 11, 2016	Request for Docs Sent	Interest Group	Wilson, John	The final information and briefing notes relating to "Towards a Sustainable Future" (from March 1, 2015) for BC Parks and the final information and briefing notes, for the same time period, that deal with new revenue streams for BC Parks. The final BC Parks presentation to the Core Review Process (made in 2013). (Date Range for Record Search: From 03/01/2015 To 11/20/2015)	Sign - Sent - Revised
	Open OVERDUE						
MOE-2015-52537	Aug 19, 2015	Dec 30, 2015	Request for Docs Sent	Political Party	Wilson, John	All the records included in the Minister's Estimates briefing binder, prepared for the 4th Session, 40th Parliament Ministry of Environment Estimates debates.	Sign - Sent - Revised
	Open OVERDUE						
MOE-2015-50135	Feb 11, 2015	Jun 19, 2015	Documents Delivered	Media	Kewley, Mark	Correspondence, including e-mails, text messages and letters, between the BC Conservation Officer Service and/or the Ministry of Environment and Environment Canada and/or the Department of Fisheries and Oceans pertaining to an investigation of Imperial Metals and its Mount Polley mine, as well as the engineering firms AMEC and BGC including any attachments to any e-mails. (Date Range for Record Search: From 08/04/2014 To 02/11/2015)	Phased - Records Reviewing
	Open OVERDUE						
MOE-2014-50092	Nov 04, 2014	Jun 19, 2015	Documents Delivered	Law Firm	Bonneau, Andrew	Any records related to the following and in relation to the Mount Polley Mine, effluent permit PE-11678 Ministry of Environment, permit amendment: Annual Discharge Plan, Surface and Groundwater Monitoring Plan, Comprehensive Annual Report, Three Month Data Report.	Call - Awaiting Further Records
	Open OVERDUE						

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Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description / Subject	Current Action
General							
MOE-2014-50089	Nov 04, 2014 **Open OVERDUE**	Jun 19, 2015	Request for Docs Sent	Law Firm	Kewley, Mark	Any records related to the following and in relation to the Mount Polley Mine: Annual Tailings Storage Facility Inspection, by AMEC Appendix L to Annual Environmental and Reclamation Report 2012; Annual Monitoring Plan Appendix C to Annual Environmental and Reclamation Report 2013; Mount Polley Water and Load Balance by SRK Appendix O to Annual Environmental & Reclamation Report, 2013; Annual Discharge Plan Appendix G to Annual Environmental and Reclamation Report 2013; Water Balance Appendix N to Annual Environmental and Reclamation Report 2013.	Sign - Sent
MOE-2014-50086	Nov 04, 2014 **Open OVERDUE**	Jun 19, 2015	Request for Docs Sent	Law Firm	Bonneau, Andrew	Any records related to the following and any SNC Lavalin reports produced for Mount Polley Mining Corp. regarding remediation, sediment stability, etc.	Records - Ready for Review
MOE-2014-50084	Nov 04, 2014 **Open OVERDUE**	Jun 19, 2015	Request for Docs Sent	Law Firm	Edwards, Gerry	Any records related to the following and any records correspondence between the MOE and Mount Polley Mining Corp. / Imperial Metals Corporation regarding the Abatement order, especially plans and reports submitted by MPMC / IMC. (Date Range for Record Search: From 09/05/2014 To 11/04/2014)	Consult - Internal

Section 3
- Sorted by newest Start Date
- Request bolded if received during reporting period

Active Consultation Requests

Request #	Start Date	Status	Applicant Type	Analyst	Description	Current Action
MOE-2016-60106	**Jun 22, 2016**	**Perfected**	**Other Governments**	**Van Schalkwyk, Charlotte**	**Any notes, minutes and reports resulting from the Canada/B.C. MOU steering committee conference call of Friday, February 11, 2011 scheduled for 12-1 pm EST concerning the proposed South Okanagan - Lower Similkameen National Park Reserve and any documents for that meeting including SOLS communications plan summary, MOU, SSOG and statement of intent.**	**Consult - External**
MOE-2016-60100	Jun 09, 2016	Perfected	Other Governments	Bonneau, Andrew	[Specified records] regarding French Creek Seafood.	Consult - SO
MOE-2016-60094	May 30, 2016	Perfected	Other Public Body	Sorboe, Rene	All communication between the CRD and the Minister of Environment and Minister of Community, Sport & Cultural Development for the month of March, 2016.	Consult - with PA for Harms
MOE-2016-60091	May 27, 2016	Perfected	Other Governments	Levesque, Evan	The entire file related to Canadian Environmental Assessment Registry: 10-01-53733 and Fisheries and Oceans Canada: 10-HPAC-PA2-00030, Johnson's Slough (BC).	Consult - with PA for Harms

Section 4
- Sorted by newest Start Date

Active Complaints/Reviews

Request #	Start Date	Due Date	Status	Applicant Type	Description / Subject	Review Type	Review Status	IPC No	Current Action
MOE-2015-54080 R	Apr 29, 2016	Sep 30, 2016	Perfected	Interest Group	Any and all records relating to a Made in BC approach to species at risk management. (Date Range for Record Search: From 06/01/2014 To 11/20/2015) (Date Range for Record Search: From 06/01/2014 To 11/20/2015)	Access Review	Mediation	F16-65946	OIPC Review
MOE-2015-53735 R	Mar 31, 2016	Sep 30, 2016	Perfected	Individual	Any and all records and correspondence (including letters, notes, emails, texts) within all departments of the Ministry of Environment, both internal and external (including but not limited to local offices, Conservation Officers, regional, and Victoria offices including those of DM's and ADM's), that reference [named individual]. (Date Range for Record Search: From 01/01/2011 To 11/10/2015) (Date Range for Record Search: From 01/01/2011 To 11/10/2015)	Access Review	Mediation	F16-65336	OIPC Review
MOE-2016-60090 R	Mar 17, 2016	Sep 30, 2016	Perfected	Law Firm	Records relating in any way to the complaint made to the Ministry by s.22 [illegible] between January 1, 2009 and November 30, 2015 and in or about December 2015 in respect of a compost facility near Lytton BC including but not limited to the facility operated by Revolution Organics Limited Partnership in the Botanie Valley; Without limiting the scope of this request, include all notes, memoranda, correspondence, emails, reports, calendar entries, diaries and records – audio or visual – made or kept by the Ministry, elected officials, employees, agents or representatives, including paper and electronic drafts of all documents.	Access Review	Mediation	F16-65810	OIPC Review

Active Complaints/Reviews

Request #	Start Date	Due Date	Status	Applicant Type	Description / Subject	Review Type	Review Status	IPC No	Current Action
MOE-2015-51579 R	Nov 02, 2015	Sep 06, 2016	Perfected	Interest Group	[Specified] records regarding the Land Application Plan TC Merritt 2 for Class B Biosolids at DL 840 Woodward Road (October 16, 2014), and the Land Application Plan TC Merritt 2 Class A Biosolids at DL 840 Woodward Road (Date Range for Record Search: From 05/01/2014 To 06/09/2015) (Date Range for Record Search: From 05/01/2014 To 06/09/2015)	Access Review	Mediation	F15-63747	OIPC Review
MOE-2015-51486 C	Jul 24, 2015	Aug 09, 2016	Perfected	Individual	Letters, emails, and other correspondence between staff of the Ministry and staff, employees, or agents of Pinnacle Renewable Energy Inc., RWDI Air Inc., Tolko Industries Ltd., and Timber Investments Ltd. including internal ministry emails or memos, related to the ministry consideration of an application for air discharge permit (and subsequent issuance of air discharge permit #107369) for the Pinnacle Lavington Pellet Partnership pellet production facility in Lavington BC from May 1, 2013 to May 31, 2015; The ministry consideration of an application or pre-application for amendment of air discharge permit #2001 issued to Tolko Industries Ltd. for the Lavington sawmill/planer mill facility in Lavington BC from April 1, 2014 to May 31, 2015.	Complaint	Mediation	F15-62085	OIPC Review

Closed General and Personal Requests

Request #	Start Date	Due Date	Closed Date	Applicant Type	Analyst	Description / Subject	Current Action
MOE-2016-61952	May 05, 2016	Jun 17, 2016	Jun 23, 2016	Media	Barbon, Tyler	Copies of Briefing Notes as referenced by Cliff number 296123. (Date Range for Record Search: From 02/01/2016 To 02/29/2016)	Response - Sent - Electronic
MOE-2016-62075	May 16, 2016	Jun 28, 2016	Jun 21, 2016	Media	Graves, Debra	Any investigatory records including documents on any enforcement action related to the following incidents - Enforcement Routing Sheets: 14-5868, 15-0163, 15-2099, 15-2662; Exclude the initial RAPP.	Response - Sent - Electronic
MOE-2016-61897	May 02, 2016	Jun 14, 2016	Jun 20, 2016	Political Party	Van Schalkwyk, Charlotte	All email correspondence received or sent by ADM Jim Standen regarding the focus group established by MLA Linda Larson to review submission on the South Okanagan National Park. (Date Range for Record Search: From 08/01/2015 To 12/31/2015)	Response - Sent - Electronic

Section 1: Summary tables
Section 2: Active General requests
Section 3: Active Consultation requests
Section 4: Active Complaints/Reviews
Section 5: Closed General Requests
Section 6: Year To Date

Freedom of Information and Protection of Privacy

Information Access Operations

Executive Weekly FOI Report
Ministry of Environment

06/20/2016 to 06/26/2016

Section 1

		General Requests								
		Currently Open	Open (this period)	Closed (this period)	Placed On-Hold	OIPC Review	Signed-Off (this period)	X-Govt (open)	X-Govt (new this period)	Overdue (open)
General	Business	0	0	0	0	0	0	0	0	0
	Individual	1	0	0	0	0	0	0	0	1
	Interest Group	0	0	0	0	0	0	0	0	0
	Law Firm	1	0	0	0	0	0	0	0	1
	Media	0	0	0	0	0	0	0	0	0
	Other Governments	0	0	0	0	0	0	0	0	0
	Other Public Body	0	0	0	0	0	0	0	0	0
	Political Party	1	0	0	0	0	0	0	0	1
	Researcher	0	0	0	0	0	0	0	0	0
	Total	3	0	0	0	0	0	0	0	3

		Personal Requests						
		Currently Open	Open (this period)	Closed (this period)	Placed On-Hold	OIPC Review	Signed-Off (this period)	Overdue (open)
Personal	Total	0	0	0	0	0	0	0

c:\program files\christiansteven\crd\Output\stcblaev.vd2

Section 2
- Sorted by newest Start Date
- Request bolded if received during reporting period

Active General and Personal Requests

Request #	Start Date	Due Date	Status	Applicant Type	Analyst	Description	Executive Comments
General							
MOE-2014-00224 **Open OVERDUE**	August 12, 2014	04-February-2015	Open	Law Firm	Kewley, Mark	All reports prepared by, or submitted to, the Ministry of Environment by any interested persons including Imperial Metals Corporation or its subsidiaries, consultants or any other stakeholder as well as formal correspondence between the Ministry of Environment and any stakeholders including warnings, advisories and requests for information or documentation, that would concern: Health and safety aspects of Mount Polley Mine operations; Environmental issues relating to Mount Polley Mine operations; Mount Polley Mine's tailings facilities design; or Mount Polley Mine's tailings facilities operations. Date range is January 1, 2010 to August 4, 2014.	IAO reviewing records
MOE-2014-00218 **Open OVERDUE**	August 06, 2014	29-January-2015	Open	Political Party	Bonneau, Andrew	Regarding Mount Polley Mine: Any and all records related to Imperial Metals' permit applications for the mine, including any permit application to discharge effluent; All inspection reports of the mine; All records related to the report Brian Olding and Associates prepared in 2011 on the mine, specifically any briefing materials, notes and/or correspondence; All records, including but not limited to materials prepared for the Minister, DMs or ADMs, related to compliance and enforcement at the mine. Date range is 2005 to [August 6, 2014].	Phase 1 of request delivered to applicant [October 29, 2015]. IAO awaiting further records from MOE.
MOE-2014-00217 **Open OVERDUE**	August 06, 2014	29-January-2015	Open	Individual	Charlotte, van-Schalkwyk	All internal correspondence relating to the breach of the Mount Polley tailings pond operated by Imperial Metals Corporation including emails, texts and Blackberry pin messages BBMs, as well as briefing notes and memoranda. Date range is August 4, 2014 to [August 6, 2014].	IAO reviewing records

Section 3

- Sorted by newest Start Date
- Request bolded if received during reporting period

Active Consultation Requests

No Active Requests Returned to This Section

Request #	Start Date	Status	Applicant Type	Analyst	Description	Executive Comments

Section 4

- Sorted by newest Start Date

Active Complaints/Reviews

No Active Requests Returned to This Section

Request #	Start Date	Due Date	STATUS	Applicant Type	Description	Review Type	Review Status	IPC No	Executive Comments

Section 5

- Sorted by newest Closed Date

Closed General and Personal Requests

No Closed Requests Returned to This Section

Request #	Start Date	Due Date	Closed Date	Applicant Type	Analyst	Description	Executive Comments

Fenton, Chrystal EAO:EX

From: Standen, Jim ENV:EX
Sent: Monday, June 27, 2016 2:53 PM
To: ENV Executive Committee
Cc: ENV EXC Exec Br Support
Subject: FYI - Servie Dleivery Board RoD
Attachments: Service Delivery Board_ROD_Jun 23.docx

Service Delivery Board
Record of Decision – June 23, 2016

In attendance:

- Bev Dicks, ADM, MTICS (Co-Chair)
- Raymond Fieltsch, ED, SDSI (Co-Chair)
- Christine Massey, ADM, MCFD
- Paige MacFarlane, ADM, AVED
- Christine Little, ADM, SBRT
- Wilf Bangert, ADM, NRTS
- Denise Champion, ADM, GCPE
- Greg Steves, ADM, OHCS
- Jim Standen, ADM, ENV
- Steven Emery, ED, FIN
- Marcin Zaranski, Exec Lead, NRTS
- Georgina Hodson, MGR, AGRI
- Chris Hauff, ED, MTICS
- Alex MacLennan, ED, PSSG
- Bernard Achampong, ED, JAG
- Stu Hackett, ED, MTICS
- David Hume, ED, GCPE
- Scarlette Verjinschi, ED, MTIC (on phone)
- Satish Perhar, ED, FIN (on phone)
- Jamie Jeffreys, DIR, FLNR (on phone)
- Kevin Ford, MGR, FIN (presenter)

Agenda	Record of Decision
Definition of Corporate Enablers *For endorsement*	**Result:** Stu Hackett proposed a definition of a Corporate Enabler. Stu was asked to provide a value proposition and further described the criteria to meet the corporate enabler definition. The proposed definition was not endorsed. **Action:** Stu was asked to distribute a revised definition to the Board for endorsement.
Pay BC Update *For information*	**Result:** Kevin Ford presented an update on the functionality and capabilities of the PayBC platform. PayBC is looking to onboard new programs areas.
Personalized Service Update *For information*	**Result:** David Hume presented an update on Personalized Service. The Personalized Service team is looking for: a) Executives to validate their value proposition for service providers b) Services or programs that fit with their persona and have the capacity to work with the team
Service Modernization, Service Integration and Consolidation (Service BC and SDSI) *For information*	**Result:** Bev Dicks provided an update on the partnership between Service BC and Social Development and Social Innovation to provide enhanced services for citizens out of Service BC offices. Service BC is looking for new Ministry partners who would benefit from service modernization, integration and consolidation.

Fenton, Chrystal EAO:EX

Subject: Save the Date for Roundup 2017

From: Simone Hill [mailto:roundup@amebc.ca]
Sent: Monday, June 27, 2016 2:48 PM
To: Carr, Michelle EAO:EX
Subject: Save the Date for Roundup 2017

Having trouble viewing this Email? View in a browser

June 27, 2016

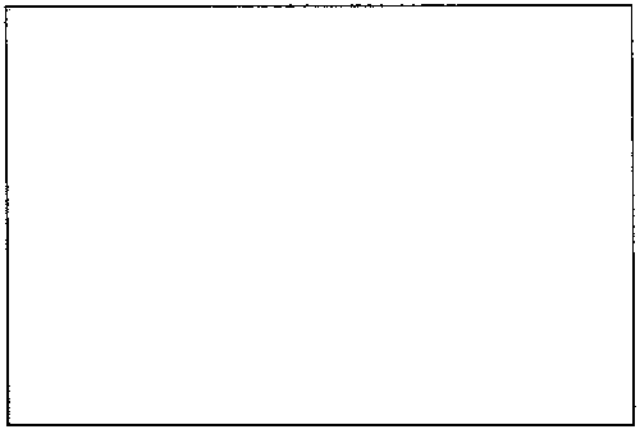
UPCOMING EVENTS & CONFERENCES
COMMENTS & SUGGESTIONS

Save the date for Roundup 2017!

AME wishes you a successful and safe field season

We are looking forward to hearing your stories, reconnecting, and learning about your projects as we gear up for discovery at Roundup 2017.

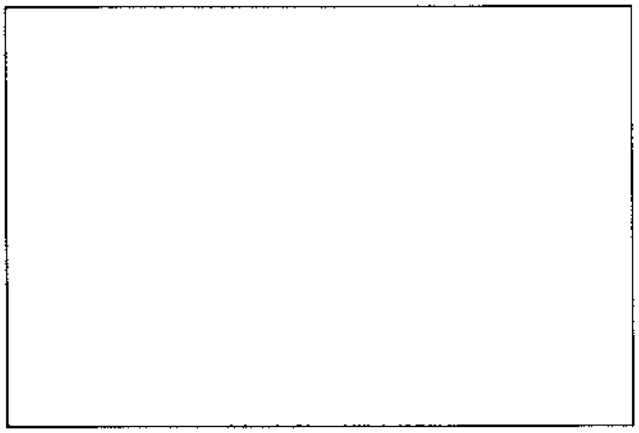
Gear up for Roundup 2017



Book your accommodation

Book your hotel in the AME Roundup 2017 hotel block to help support our industry and receive free perks in return!

Read More



Become a sponsor

Connect your company with thousands of mineral exploration leaders by becoming a Roundup 2017 sponsor.

Read More

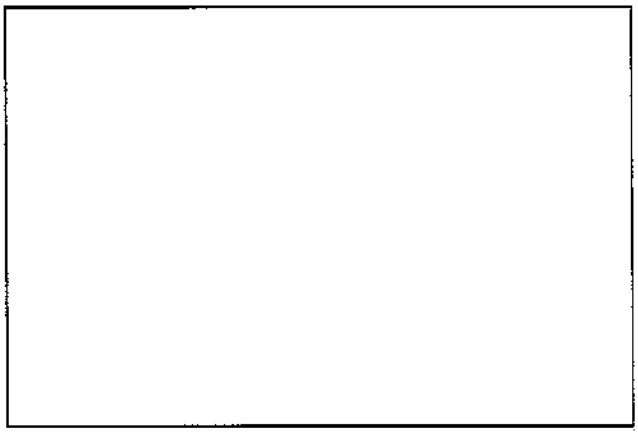
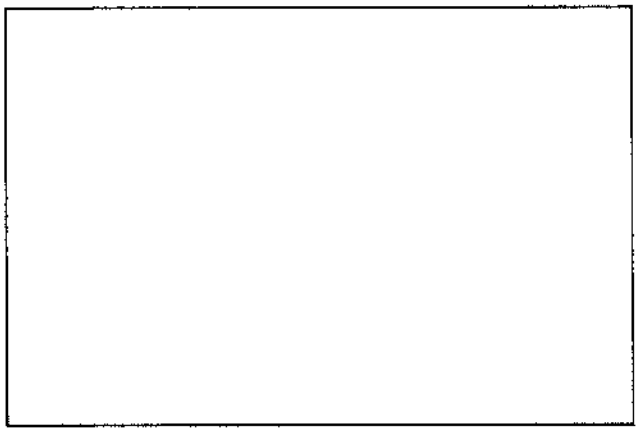


Exhibit at Roundup

The Exhibit Hall is a staple of Roundup and presents an unparalleled opportunity to make your project or company known in the mineral exploration and development sector.

Read More

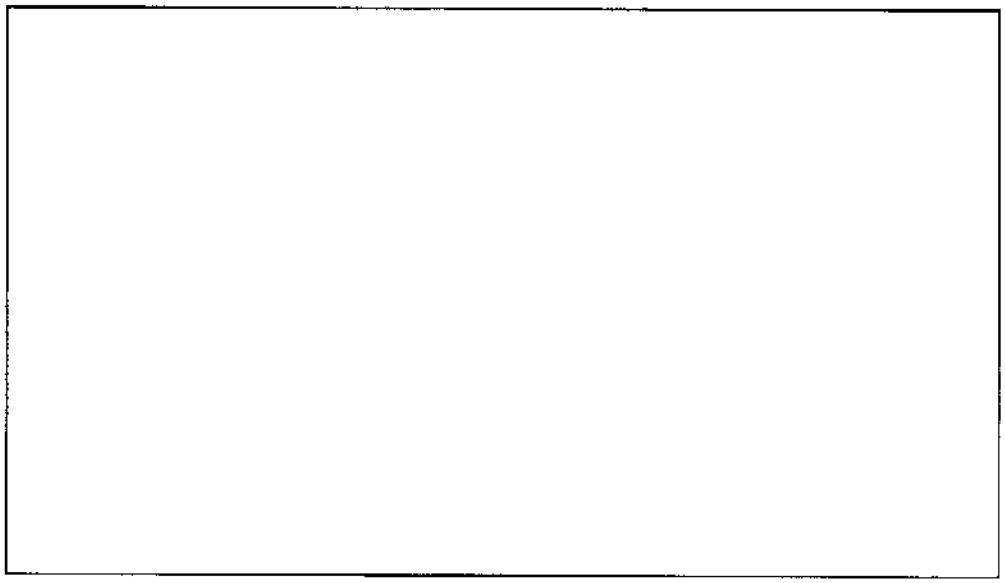


Get up to speed on AME

We have been busy this year advocating on behalf of our members! Look through our Core Matters and News Updates to see how we have been striving to help explorers of all backgrounds uncover opportunities, search for discoveries, and realise their full potential.

Watch out for the launch of our new Roundup website in September

And in the meantime, check out our Roundup 2016 video!



Association for Mineral Exploration
Suite 800 - 889 West Pender Street
Vancouver, BC V6C 3B2
P: 604.689.5271 F: 604.681.2363
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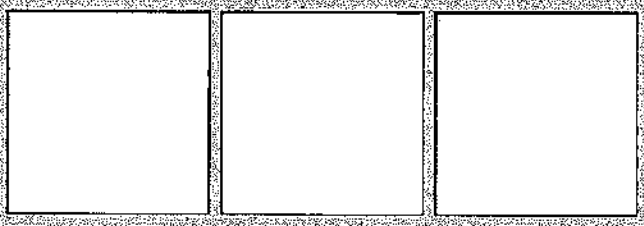

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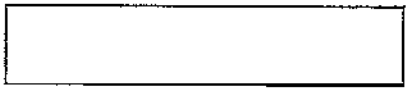

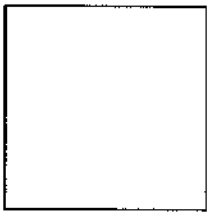

Fenton, Chrystal EAO:EX

From:	Crozier, Bev ENV:EX
Sent:	Monday, June 27, 2016 3:50 PM
To:	ENV Executive Committee
Cc:	ENV EXC Exec Br Support
Subject:	Draft June 24 Executive Meeting Notes
Attachments:	June 24 - Draft Minutes.docx

Good afternoon everyone

Attached please find the draft June 24 Executive meeting notes.

Please note the various ACTION items, with June 30 being the date ADMs need to respond back to Scott with their appointed FOI division approvers.

Thank you,

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Ministry of Environment
Executive Committee Meeting
Draft Meeting Notes for June 24, 2016

Chair: Wes Shoemaker

In Attendance:

Wes Shoemaker	Kevin Jardine
Jim Standen	Wes Boyd
Kaaren Lewis	Susanna Laaksonen-Craig (by phone)
Michelle Carr	Bernadette Murphy for Dave Crebo
Bev Crozier	Mark Zacharias
Scott Barillaro	Fazil Mihlar (by Phone)

Absent: Fazil Mihlar, Dave Crebo

STANDING ITEMS	ACTION and DATE DUE
Hiring Requests:	
Agenda / Minutes • Agenda has been accepted as presented with the addition of "sub Pay for manager vacation" • Minutes accepted as presented.	• ACTION: Add "sub pay for vacation – talk to SHR"
Communications Update – Bernadette update: • s.12 • s.13 • Integrated pest management comes into force July 1 EAO Communications – Kevin update: • June 28 – Roberts Bank Terminal – IN to be updated	ACTION: Kevin to forward letter today.
Deputy Minister Update • Budget letters • Embargoed copy of Privacy Commissioner's Hullcar Report • s.12 • •	
Manager, Executive Operations Update • Capital Park – Scott provided latest update. MTIC has packaged up the principles. 3rd option looks better for us – with ENV on floors 3 & 4 and a 1/3 of 5. • Issues Process Questions – emails to Scott and cc to ADMO. • Two models to use: (1) Scott is still checkpoint in the DMO. (2) ADM to be the primary contact with cc to their Issues Manager. (3) STATUS quo	ACTION: Scott to pitch this option back to MTIC ACTION: MARK Z prefers to have them come to him and Curtis ACTION: Route to the ADM with copy to DMO and DIM Wes to have conversation with the MO.

FOI Approvers – Pilot Identifying those in the divisions who will be the approvers for FOI – pilot project.	ACTION: ADMs to get an confirmed list of approvers by June 30 to Scott • Kaaren and Scott to have offline conversation as ESSPD was not part of the pilot
Budget / TB Tracking Update – Wes Boyd • Wes went through the TB log • Budget letters coming	
FOR INFORMATION / DECISION	**ACTION and DATE DUE**
SHR Matters – Kim Russell / Elaine Cross • Elaine went through the PPT and highlighted key areas of the health and wellness of the Ministry. • Went through WES demographics for the ministry. • Substitution Pay for Managers - Guidelines	ACTION – Bev to arrange for all-staff call placeholder for one service to promote ACTION: We want to create an Executive Action Plan With expanded executive. SHR to propose how to develop a WES Action Plan. ACTION: SHR to bring a more detailed demographic plan to future Executive. ACTION: bring back the WES action plan – Jim and Kaaren to work on ACTION: Kim will pull; guidelines from MyHR and send to Executive. ACTION: Jim to do the analysis and send to Executive
Privacy Concerns – Denise Rossander / Nick Corcoran • Went through the Privacy Management and Accountability Policy. • Handed out the NRS Information Security Architecture – what we do.	

Fenton, Chrystal EAO:EX

From: Bates, Julia EAO:EX
Sent: Monday, June 27, 2016 4:03 PM
To: Carr, Michelle EAO:EX
Cc: Murphy, Shelley EAO:EX; Stockman, Fern P EAO:EX; Weaver, Colleen EAO:EX; Fenton, Chrystal EAO:EX
Subject: **FOR ADM DISTRIBUTION: Staffing announcement

Follow Up Flag: Follow up
Flag Status: Completed

Michelle,
The following announcement has been drafted for your distribution. This is to be sent the week of July 4th, as s.22 . Thank you!

TO: EAO All
CC s.22

****

Good afternoon,

Earlier in March I distributed an announcement celebrating the addition of eight new Project Assessment Officers (PAO) to the Division. Today, I am very pleased to introduce you to s.22
s.22

s.22

As a reminder of the colleagues that have joined us from this competition, the successful PAO's, in alphabetical order, include: s.22
s.22 Once again congratulations!

Please join me in welcoming s.22 to EAO.

With thanks,

Michelle

Loiacono, Sabrina EAO:EX

From: Standen, Jim ENV:EX
Sent: Monday, June 27, 2016 4:15 PM
To: ENV Executive Committee
Cc: ENV EXC Exec Br Support
Subject: Urgent Parks staffing request

Importance: High

Wes,

s.22

Recreation and Business Specialist – AO N27

The position is responsible for managing all aspects of the Discover Camping reservation system and is essential to keeping this function running BC Parks. Discover Camping is the economic engine for BC Parks, and plays a key role in the $20M in camping fees generated each year and the $2.2M in reservation transaction charges that go to pay for the system. The position is also central to designing and implementing changes to the system to respond to recent media stories. The incumbent is transferring to a different role and it is critical that we fill the position with no gap in service during the height of our operating season. The position is currently funded and budgeted.

s.13

Jim

Loiacono, Sabrina EAO:EX

From: Lewis, Kaaren ENV:EX
Sent: Monday, June 27, 2016 6:13 PM
To: Standen, Jim ENV:EX; ENV Executive Committee
Cc: ENV EXC Exec Br Support
Subject: RE: Urgent Parks staffing request

I am supportive

From: Standen, Jim ENV:EX
Sent: Monday, June 27, 2016 4:15 PM
To: ENV Executive Committee
Cc: ENV EXC Exec Br Support
Subject: Urgent Parks staffing request
Importance: High

Wes,

s.22

Recreation and Business Specialist – AO N27
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s.13

Jim

Loiacono, Sabrina EAO:EX

From: Shoemaker, Wes ENV:EX
Sent: Monday, June 27, 2016 7:12 PM
To: Standen, Jim ENV:EX; ENV Executive Committee
Cc: ENV EXC Exec Br Support
Subject: RE: Urgent Parks staffing request

Barring any concerns from the Exec, I support.

Wes

From: Standen, Jim ENV:EX
Sent: Monday, June 27, 2016 4:15 PM
To: ENV Executive Committee
Cc: ENV EXC Exec Br Support
Subject: Urgent Parks staffing request
Importance: High

Wes,

s.22

Recreation and Business Specialist – AO N27
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s.13

Jim

Loiacono, Sabrina EAO:EX

From: Laaksonen-Craig, Susanna ENV:EX
Sent: Monday, June 27, 2016 7:16 PM
To: Boyd, Wes CSNR:EX
Cc: Shoemaker, Wes ENV:EX; Standen, Jim ENV:EX; ENV Executive Committee; ENV EXC Exec Br Support
Subject: Re: Urgent Parks staffing request

Me too.

Susanna

Sent from my iPhone

On Jun 27, 2016, at 10:12 PM, Boyd, Wes CSNR:EX <Wes.Boyd@gov.bc.ca> wrote:

> Makes complete sense to me.
>
> Sent from my BlackBerry 10 smartphone on the Rogers network.
>
> ---
>
> **From:** Shoemaker, Wes ENV:EX
> **Sent:** Monday, June 27, 2016 7:11 PM
> **To:** Standen, Jim ENV:EX; ENV Executive Committee
> **Cc:** ENV EXC Exec Br Support
> **Subject:** RE: Urgent Parks staffing request
>
> Barring any concerns from the Exec, I support.
>
> ***Wes***
>
> ---
>
> **From:** Standen, Jim ENV:EX
> **Sent:** Monday, June 27, 2016 4:15 PM
> **To:** ENV Executive Committee
> **Cc:** ENV EXC Exec Br Support
> **Subject:** Urgent Parks staffing request
> **Importance:** High
>
> Wes,
>
> s.22

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s.13

Jim

Fenton, Chrystal EAO:EX

From: Sandra Littlewood s.22
Sent: Monday, June 27, 2016 7:21 PM
To: Carr, Michelle EAO:EX; Caul, Doug D ABR:EX; Andria; Chastity Davis; Honourable Ida; Hamilton, Chris FLNR:EX; Chris Sankey; Chris Sankey; XT:Johnston, Christopher FOR:IN; cidhdenuncias; Geordan; Beverley; Jessica; David; Minister, MEM MEM:EX; Russell; XT:Connelly, Rick CLBC:IN; Cooper; Jeff; courtney daws
Subject: RE:

http://hophankuku.johnsparger.com/Sandra_Littlewood

Sandra Littlewood
Sent from my iPhone

Fenton, Chrystal EAO:EX

From: Grace, David H EAO:EX
Sent: Monday, June 27, 2016 6:56 PM
To: Haines, Kate EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response
Attachments: RBT2 - All Presentations.pdf; RBT2 GoC presentations.pdf

For the orientation session tomorrow please find attached a pdf containing the Provincial presentations and a second pdf of Federal presentations.

Regards,
David

David Grace
Project Assessment Manager
BC Environmental Assessment Office

Tel: 250-387-1417
Cell: 250-818-7485
David.Grace@gov.bc.ca

EAO | Environmental Assessment Office

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 9:54 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

Further to my note this morning, the draft agenda for tomorrow has been posted to the CEA registry:

http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

If you wish to be added to the panel's distribution list to receive updates, you may provide your name and email address to Panel.RBT2@ceaa.gc.ca.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 8:13 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

Resending with both attachments – not sure what sort of hiccup happened there with outlook.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 8:09 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: Roberts Bank Terminal 2 - EAO coordinated response

Good morning, I am sending this note to all those who have been identified as presenters for the RBT2 panel orientation session tomorrow in Vancouver, and to those who have been identified as go-forward contacts for the panel. I would like to make sure everyone is fully up to date on communications that went out last week, as I know there have been emails going back and forth at the DM, ADM and staff level.

Attached is an email with two letters that Kevin Jardine (Associate Deputy Minister of EAO) sent to the panel last week, and his cover messages to the deputies who received the letters form the panel. These emails and letters provide information on EAO's coordinating role for provincial panel participants, and also provide the information requested in the June 9, 2016, from the panel chair. Also attached is a note sent to presenters on Friday giving a few more details about preparing for the orientation session tomorrow.

For those who are presenting or supporting presenters, I would like to highlight that **PowerPoint presentations are due to the panel no later than noon today**, to be sent directly to Panel.RBT2@ceaa.gc.ca. Please follow up with me, David Grace or Monica Perry if you have any questions.

Also please note that while EAO provided a coordinated provincial response to the June 9 letter to deputies from the panel, for agencies not attending tomorrow, you may want to respond to the panel request directly by letting them know you will not be there (June 12, 2016 follow up letter to provincial Deputy Ministers).

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

Fenton, Chrystal EAO:EX

Subject: FW: FOR COMMENT: IAIA17 Submission on UNDRIP in EA
Attachments: IAIA17 UNDRIP in EA Session Submission.docx

Importance: High

From: Smith,Heather [CEAA] [mailto:Heather.Smith@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 3:18 PM
To: Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX
Subject: FOR COMMENT: IAIA17 Submission on UNDRIP in EA
Importance: High

Hi Kevin and Michelle!

Please find attached your comments a proposed submission for the IAIA 2017 Annual Conference in Montreal. You will see that I have put your names in square brackets in the proposed submission. If you agree to co-chair, I will change my name from lead chair to "co-lead".

There are a range of possible formats for the sessions. The two most relevant presentation options are:

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For this type of session, I think we would want to invite the presenters for the session, rather than open it up to anyone who wants to submit a paper. It may also be easier to get the participants to present a deck presentation rather than writing a "paper".

Please let me know if you have any comments and whether you are willing to co-sponsor the presentation. Some of the ideas I had for panelists include the Squamish or Bing Giraud re Woodfibre, or the SSN for processes where there is no treaty in place; the Nisga'a or the Nunatsiavut Government (developing EA processes under their land claims agreements); a representative of a Northern Land Claims Board, a representative on a committee under the James Bay & Northern Quebec Agreement (1st generation of the modern treaties), and someone who can talk about EA processes in southern Canada where treaties are in place (maybe me, maybe someone else).

Can you please let me know if you are willing to participate in organizing the session by Wednesday? I know it is short notice, but we need to get the submission in by June 30th. Cheers!

Heather Smith
Vice-President / Operations
Canadian Environmental Assessment Agency / Government of Canada-
Heather.Smith@ceaa-acee.gc.ca / Tel: 613-948-2665 / Fax: 613-957-0935

Vice-Présidente / Opérations
Agence canadienne d'évaluation environnementale / Gouvernement du Canada
Heather.Smith@ceaa-acee.gc.ca / Tél. : 613-948-2665 / Fax: 613-957-0935

Government of Canada / Gouvernement du Canada

Canada

International Association of Impact Assessment- 2017 Annual Conference

Session Title: *The Practical Implications of UNDRIP in the Context of Impact Assessment*

Lead Chair Name: Heather Smith – Canadian Environmental Assessment Agency

[Co-Chair Name: Kevin Jardine or Michelle Carr – British Columbia Environmental Assessment Office]

Conference Topic: Indigenous Peoples

Session Format: Panel Discussion

Session Description: *(300 words max)* There are more than 370 million Indigenous peoples in some 90 countries worldwide. Indigenous peoples have social, cultural, economic and political characteristics that are distinct from those of the dominant societies in which they live. They seek recognition of their identities, of their ways of life, and of their rights to traditional lands, territories and natural resources.

The United Nations *Declaration on the Rights of Indigenous Peoples* (UNDRIP), adopted on September 13, 2007, includes 13 articles that touch on environmental and decision-making rights, and rights to use and benefit from traditional territories. Decisions related to project assessment are often associated with Article 19, which asserts that:

> *"States shall consult and cooperate in good faith with the Indigenous Peoples concerned through their own representative institutions in order to obtain their free, prior and informed consent before adopting and implementing legislative or administrative measures that may affect them."*

Impact assessment serves as a key tool for identifying and mitigating adverse impacts on Indigenous peoples. This session will examine the practical implications of UNDRIP in the context of impact assessment of development projects.

Panelists will explore the opportunities and challenges of involving Indigenous peoples in project planning and the conduct of assessments, as well as in monitoring and follow up programs and other resource management activities that flow from project decisions. Presentations will represent a range of Canadian models.

Canada has over 40 years of experience in involving Indigenous peoples in environmental and social impact assessments, and over 30 years of experience in reconciling constitutionally protected Aboriginal and treaty rights with other public interests, including economic development interests. *(265 words)*

Session Summary: (*50 words max)*
This session examines the practical implications of the United Nations *Declaration on the Rights of Indigenous Peoples* for project assessment in Canada- the opportunities and challenges of Indigenous involvement in project planning, the conduct of assessments, monitoring and follow up programs, and resource management activities flowing from project approvals. *(50 words)*

Additional Information: (*75 words max)*
Panelists will be chosen to demonstrate the evolution of indigenous participation in project assessment and resource management over time, and to contrast approaches in southern Canada in treaty and non-

treaty areas, and with processes established in Land Claims Agreements in the North. The discussion will focus on lessons learned through implementation of different models of indigenous participation and future areas for innovation. *(62 words)*

Fenton, Chrystal EAO:EX

From: Fenton, Chrystal EAO:EX
Sent: Tuesday, June 28, 2016 11:39 AM
To: Carr, Michelle EAO:EX
Subject: Draft email to new staff re: IPAC Networking Events

Hi everyone,

s.22

- Engage in dialogue and share ideas, learnings, questions, and experiences with respect to the public sector;
- Provide new professionals with an informal mentorship opportunity and offer them exposure to various domains of the public sector and executive perspectives on leadership, governance, policy, etc; and
- Provide executives with an opportunity to exemplify leadership skills, share invaluable knowledge with the next generation of public service leaders, gain a fresh perspective and learn about new ways to approach complex problems.

You can stay in the loop about these types of opportunities by signing up for their distribution list, which can be done by visiting the IPAC website (http://www.ipac-victoria.ca/). There is a "Distribution List" icon on the left-hand side of the homepage. They also have Facebook Page ("IPAC Victoria") and Twitter Account (@IPACVictoria).

If you have any questions please let me know.

Thank you
Michelle

Fenton, Chrystal EAO:EX

From: Grace, David H EAO:EX
Sent: Tuesday, June 28, 2016 6:23 AM
To: Haines, Kate EAO:EX; 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RE: RBT2 Panel presentations - EAO presentation
Attachments: RBT2 - All Presentations.pdf

Good morning,

Please find attached a pdf containing all of the Provincial presentations for the RBT2 Orientation session.

Regards,
David

David Grace
Project Assessment Manager
BC Environmental Assessment Office

Tel: 250-387-1417
Cell: 250-818-7485
David.Grace@gov.bc.ca

EAO | Environmental Assessment Office

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager

Fenton, Chrystal EAO:EX

Subject:	Fording River Amendment briefing
Location:	Michelle's Office
Start:	Mon 2016-07-18 10:30 AM
End:	Mon 2016-07-18 11:00 AM
Show Time As:	Free
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Carr, Michelle EAO:EX
Required Attendees:	Antill, John EAO:EX; Thede, Amy EAO:EX; Whitley, Rebecca EAO:EX
Categories:	EAO Internal Mtg

Fenton, Chrystal EAO:EX

From: James Frolich s.22
Sent: Tuesday, June 28, 2016 1:41 PM
To: Carr, Michelle EAO:EX
Subject: Adaptive Management questions

Hello Michelle, it has been a while and I hope all is well. You may recall that we met while I was EA Division Manager at Golder; later, when I ran the Golder LNG program, you and I met at an LNG event where we were both speakers. s.22

Since then I have been consulting with local environmental companies on various strategic issues. I have also been staying involved in the LNG sector and assisting proponents and consultants with planning for environmental management as they head toward Final Investment Decision and construction. One of the consultants is Essa Technologies, which is a leader in Adaptive Management, planning monitored and responsive approaches to environmental mitigation during project development and operation.

We have noted that Adaptive Management is required by the EAC conditions for some of the projects that are more recently approved. It is somewhat unclear to us, not having been in the EA process on these projects, what is intended by that requirement, and to what extent the province and others are expecting to see formal management programs implemented. We would like to understand better and, as appropriate, contribute some of Essa's lessons learned to the discussion.

To that end, would it be possible to meet with you, and/or appropriate project or policy staff at the EAO to discuss Adaptive Management and what you see as important in that area? I would bring along two senior experts from Essa and we are fairly flexible on timing. I am trying to set up a day of meetings in Victoria and my preference would be mid-July, say perhaps July 15 or 22 if that worked. With me flying over from Vancouver late morning or early afternoon is best. (Realizing that my question is also relevant to the permitting process, I have also asked Paul Jeakins if we can meet with some of his colleagues at the OGC when I am in town.)

Thanks in advance for helping me out. I look forward to hearing from you and hopefully seeing you, or your colleagues, sometime soon. In the meantime, enjoy the long weekend coming up. Best regards, James Frolich

James W. Frolich, BA, MBA
s.22

Fenton, Chrystal EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 4:50 PM
To: 'Smith,Heather [CEAA]'; Carr, Michelle EAO:EX
Subject: RE: FOR COMMENT: IAIA17 Submission on UNDRIP in EA
Attachments: IAIA17 UNDRIP in EA Session Submission.docx

Thanks once again for this, Heather.

Your submission looks good and, yes, I would be very pleased to co-chair the session. To that end, I've made a very few suggested amendments in the attached for your consideration.

I agree also that the panel discussion format is certainly the most appropriate given the subject matter and, if nothing else, will ensure an engaging session.

s.13,s.16

I otherwise look forward to hearing from you in due course regarding next steps.

Best rgds,

K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO | Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

From: Smith,Heather [CEAA] [mailto:Heather.Smith@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 3:18 PM
To: Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX
Subject: FOR COMMENT: IAIA17 Submission on UNDRIP in EA
Importance: High

Hi Kevin and Michelle!

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Heather Smith
Vice-President / Operations
Canadian Environmental Assessment Agency / Government of Canada-
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Vice-Présidente / Opérations
Agence canadienne d'évaluation environnementale / Gouvernement du Canada
Heather.Smith@ceaa-acee.gc.ca / Tél. : 613-948-2665 / Fax: 613-957-0935

Government of Canada Gouvernement du Canada

Canada

Fenton, Chrystal EAO:EX

Subject:	Canceled: EPIC All-Staff Training (Option 2)
Location:	EAO R 1st Floor Large Boardroom EAO:EX
Start:	Wed 2016-07-13 9:00 AM
End:	Wed 2016-07-13 11:00 AM
Show Time As:	Free
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Carter, Rumon EAO:EX
Optional Attendees:	Rennert-May, Leya EAO:EX; McDonald, Geoff L EAO:EX; Del Raye, Nicole EAO:EX; Carr, Michelle EAO:EX; Perry, Monica EAO:EX; Qureshi, Yasmeen EAO:EX; Fenton, Chrystal EAO:EX; Bond, Jeanine EAO:EX; Jardine, Kevin EAO:EX; Cheema, Kashmiro K EAO:EX; Neilson, Kirsten EAO:EX; Roburn, Audrey EAO:EX; James, Tracy A EAO:EX; Hamblin, Gerry EAO:EX; Motisca, Dan EAO:EX; Waters, Cory EAO:EX; Vinette, Nicole EAO:EX; Foote, Sheldon EAO:EX; McDonald, Tavis EAO:EX; McLean, Alex D EAO:EX; Schell, Natalie EAO:EX; Braun, Nathan EAO:EX; Noble, Heather EAO:EX; Ashcroft, Greg E EAO:EX; Bailey, Scott EAO:EX; Rodgers, Matthew EAO:EX; Hall, Susan M EAO:EX; Costello, Taylore EAO:EX; Black, Brenda EAO:EX; Walton, Lindsay EAO:EX; Worsley, Kristin E EAO:EX; Pizarro, Kirsten EAO:EX; Cote, Betty A EAO:EX; Zurakowski, Krysia EAO:EX; Christie, Karen L EAO:EX; Craven, Paul EAO:EX; Smith, Lena; Broadbent, Sean EAO:EX; Scraba, Erin H EAO:EX; McGuigan, Erin EAO:EX
Categories:	EAO Internal Mtg
Importance:	High

Cancelling as per my previous explanatory note.

Page 0166 to/à Page 0167

Withheld pursuant to/removed as

s.22

Fenton, Chrystal EAO:EX

Subject: FW: MOE ARC ToR after Exec meeting

From: Stevenson, Kira ENV:EX
Sent: Tuesday, June 28, 2016 4:15 PM
To: Standen, Jim ENV:EX; Carr, Michelle EAO:EX
Subject: MOE ARC ToR after Exec meeting

Hi Jim and Michelle,

I have inserted Wes's comments on the ARC Terms of Reference from May 12 when you presented to Executive. Please review to make sure I reflected what you heard.

This is the draft agenda for the July 5 meeting, taken from the canceled June meeting:

TIME	AGENDA ITEM
2:30-2:45	Introductions Approve agenda Review action items Debrief on MOE ARC presentation to Executive (Jim/Michelle) Update on FN Secretariat (Fern) Update on BCPARC (Jim)
2:45-3:00	NRS Stakeholder Engagement Strategy (Jim)
3:00-3:10	s.16
3:10-3:20	Discuss primary work items and distill into objectives • Any missing? • Prioritization – which to start and when • Who needs to be involved
3:20-3:30	Next steps • New BC Parks representative? Next agenda

As always, feel free to let me know if you have any comments or questions,

Kira

Fenton, Chrystal EAO:EX

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:34 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: DMC Presentation
Attachments: DM Update and Ministerial Training Slides - Final.pptx

Good afternoon

Attached please find a presentation that had been circulated to DMC by Cheryl Wenezenki-Yolland. For your information only.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Information Management Status Update

- Addressing Loukidelis recommendations in three phases
- First phase complete:
  - Trained Ministerial staff & DMO FOI Liaisons
  - New FOI process for Ministers' Offices in place
  - New escalation and presumptive sign-off processes in place
  - Reinitiated Proactive Disclosure Initiative
- Goals were to go above and beyond Loukidelis recommendations and to make meaningful and impactful change in the short term to build trust for longer term actions

What else have we done?

- Brought *Information Management Act* into force
- Established Privacy Management and Accountability Policy
  - Ministry Privacy Officers in place
- FOI Statistics show improved timeliness and fewer No Records Responses
- Associate DM and ADM Level Open Information Committee has been identified
- Minister's recent announcement has been well received

What is coming next?

- Continued business process improvements and implementation of staffing strategy at IAO
- Mandatory training for all employees
- Expanded proactive disclosure (e.g. to include contracts)
- Legislated "duty to document"
- Comprehensive compliance and audit program, including:
  - Ministry self-audit
  - Audit of ministry personal information practices
  - Personal Information Inventory

Privacy, Access and Records Management Refresher

For Ministers

Privacy, Compliance & Training Branch

Corporate Information and Records Management Office

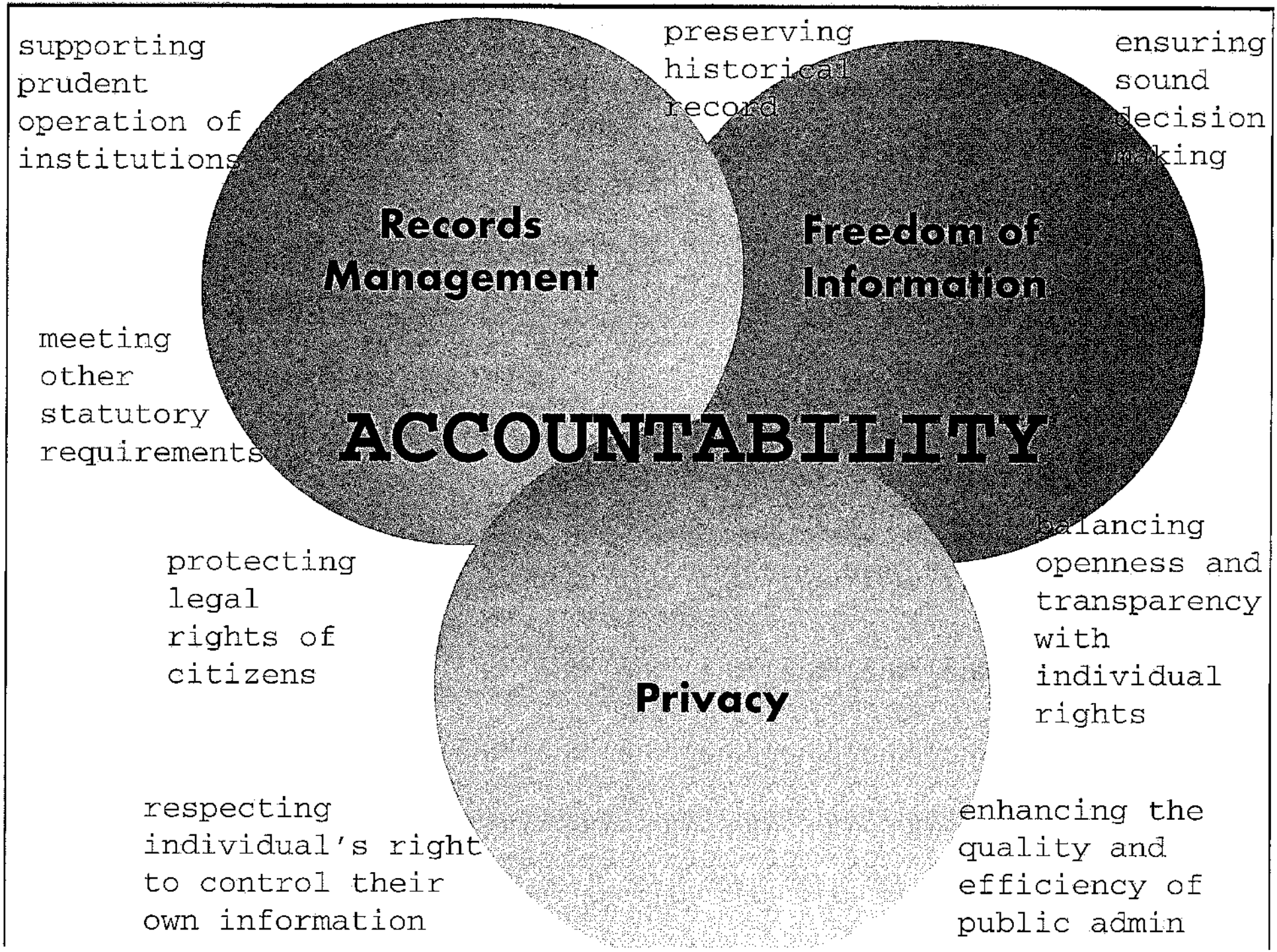
Ministry of Finance

April 2016

BRITISH COLUMBIA

Ministry of Finance

Trusted financial and economic leadership for a prosperous province


supporting prudent operation of institutions
preserving historical record
ensuring sound decision making
Records Management
Freedom of Information
meeting other statutory requirements
ACCOUNTABILITY
protecting legal rights of citizens
balancing openness and transparency with individual rights
Privacy
respecting individual's right to control their own information
enhancing the quality and efficiency of public admin

Agenda

An overview of Information Management obligations, as well as the *Freedom of Information and Protection of Privacy Act* (FOIPPA), including:

Records Management

- Strategies for managing your records

Access to Information

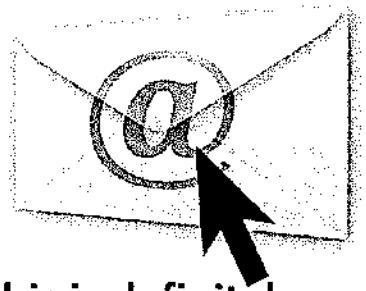
- FOI rights
- Duty to assist and related enhancements
- Proactive release

Privacy

- What is personal information?
- Privacy principles

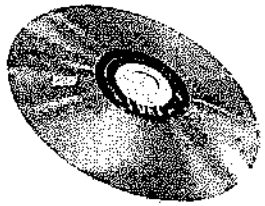
What is a "Record"?

- A "record" includes "books, documents, maps, drawings, photographs, letters, vouchers, papers and any other thing on which information is recorded or stored by any means whether graphic, electronic, mechanical or otherwise"

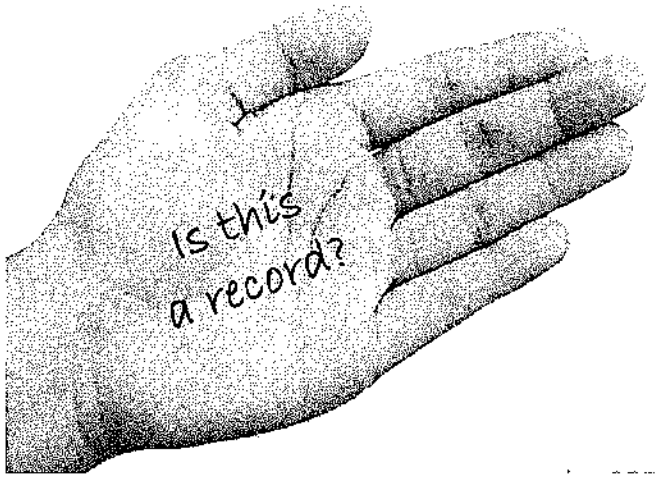


this is definitely a record

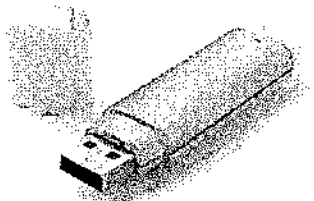




this is a record







this contains records

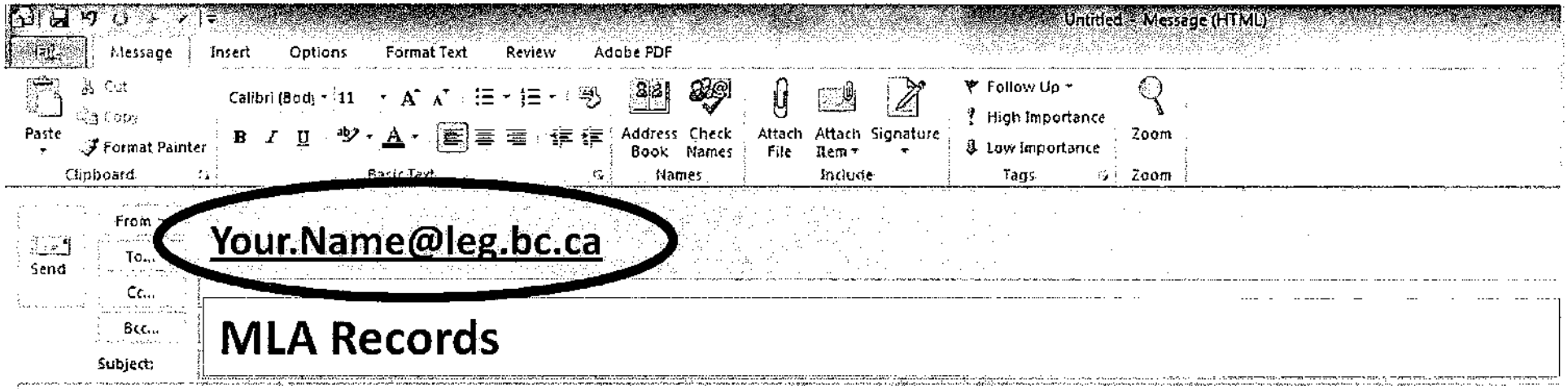
7

Types of Records

Minister's Office Records

Three main types of records:

1. MLA (Constituency)
2. Personal (non-government)
3. Government records (Ministry business, Cabinet, administrative, etc.)

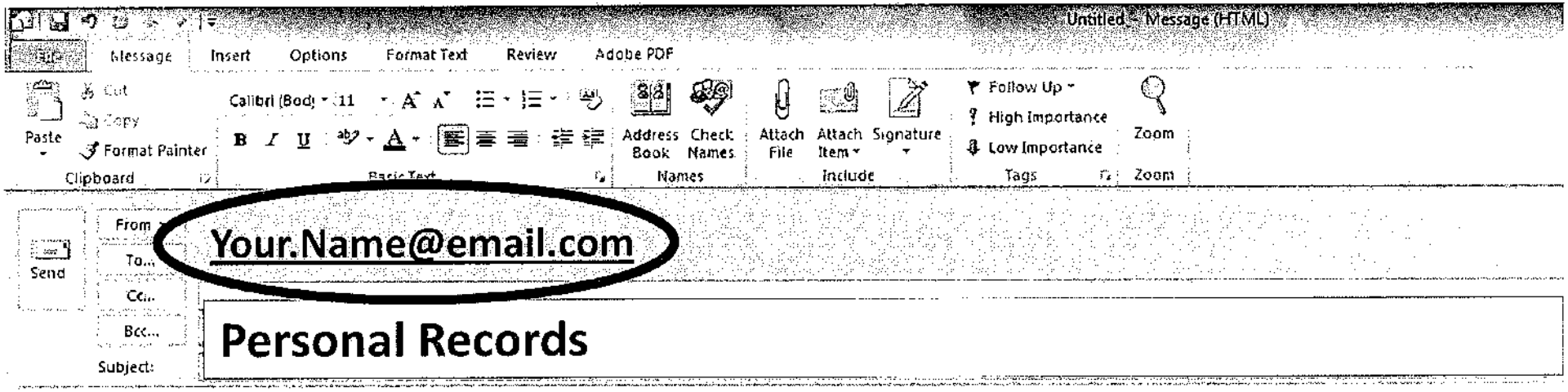


Dear Representative,

Thank you for coming to BC Heights High School to talk to the students about civic responsibility.

Sincerely,
Local Teacher

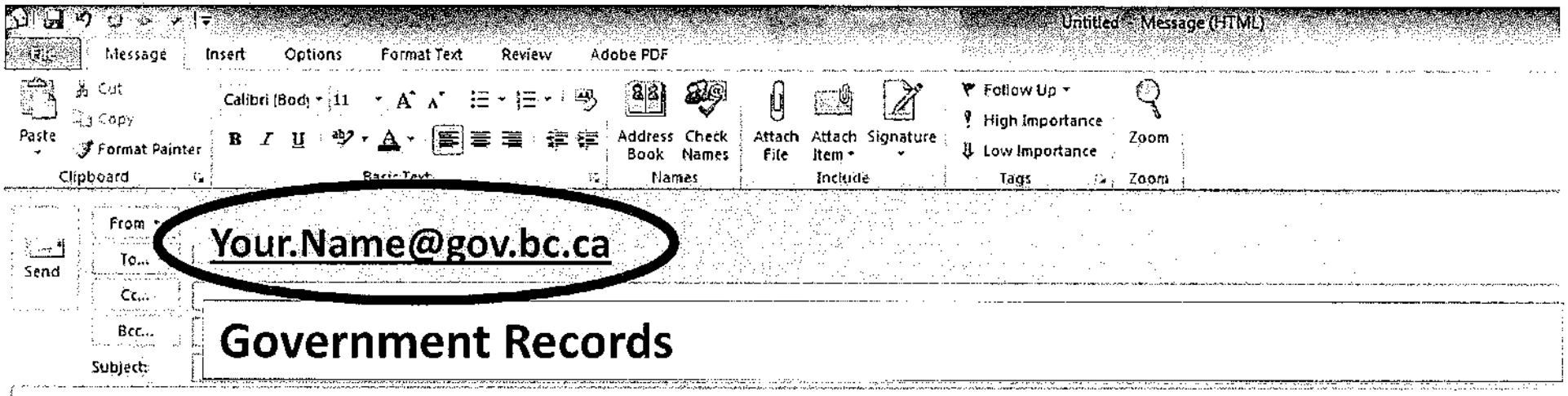
9



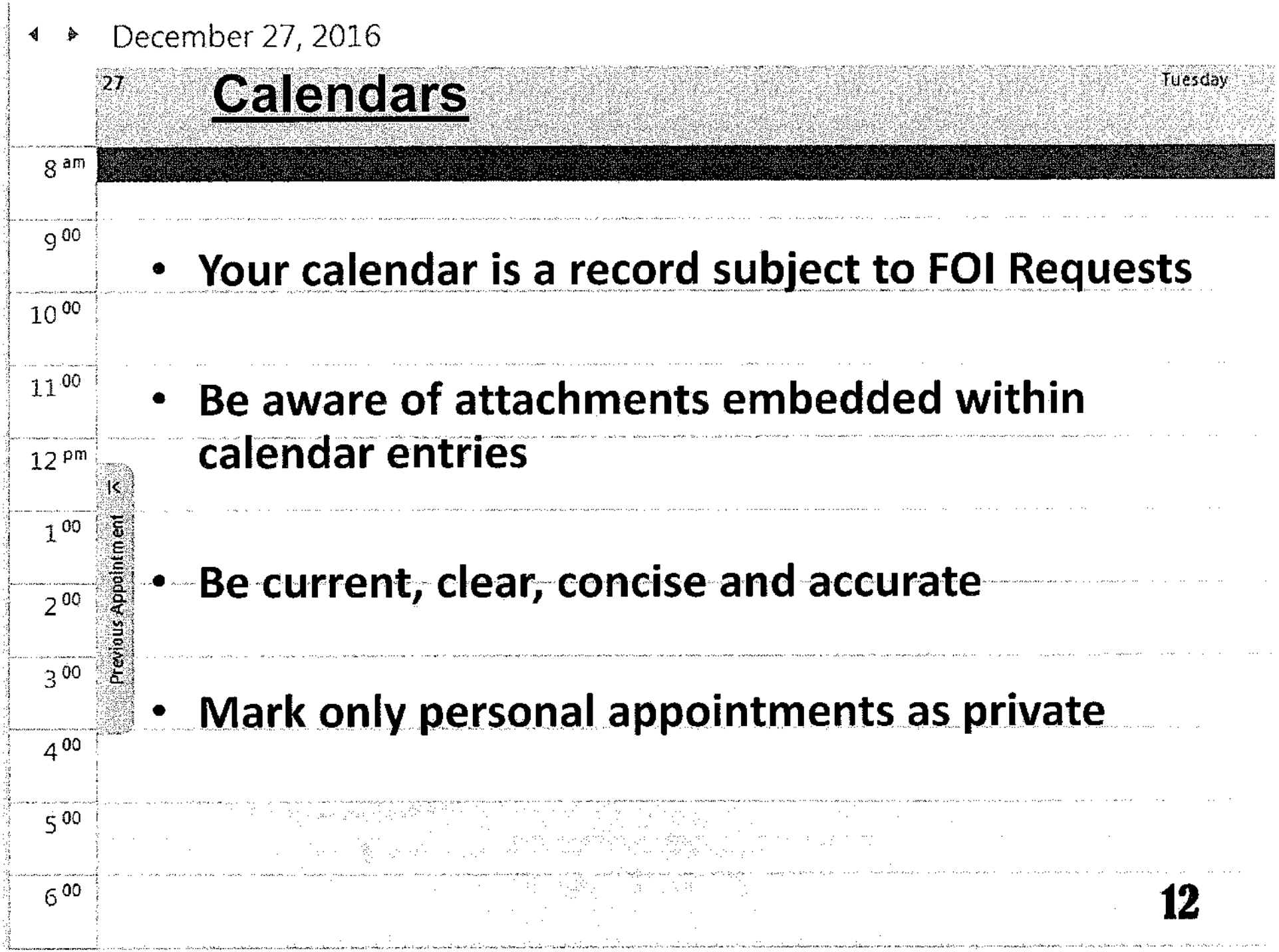
Hi Honey,

Can you please buy some milk on the way home?

10



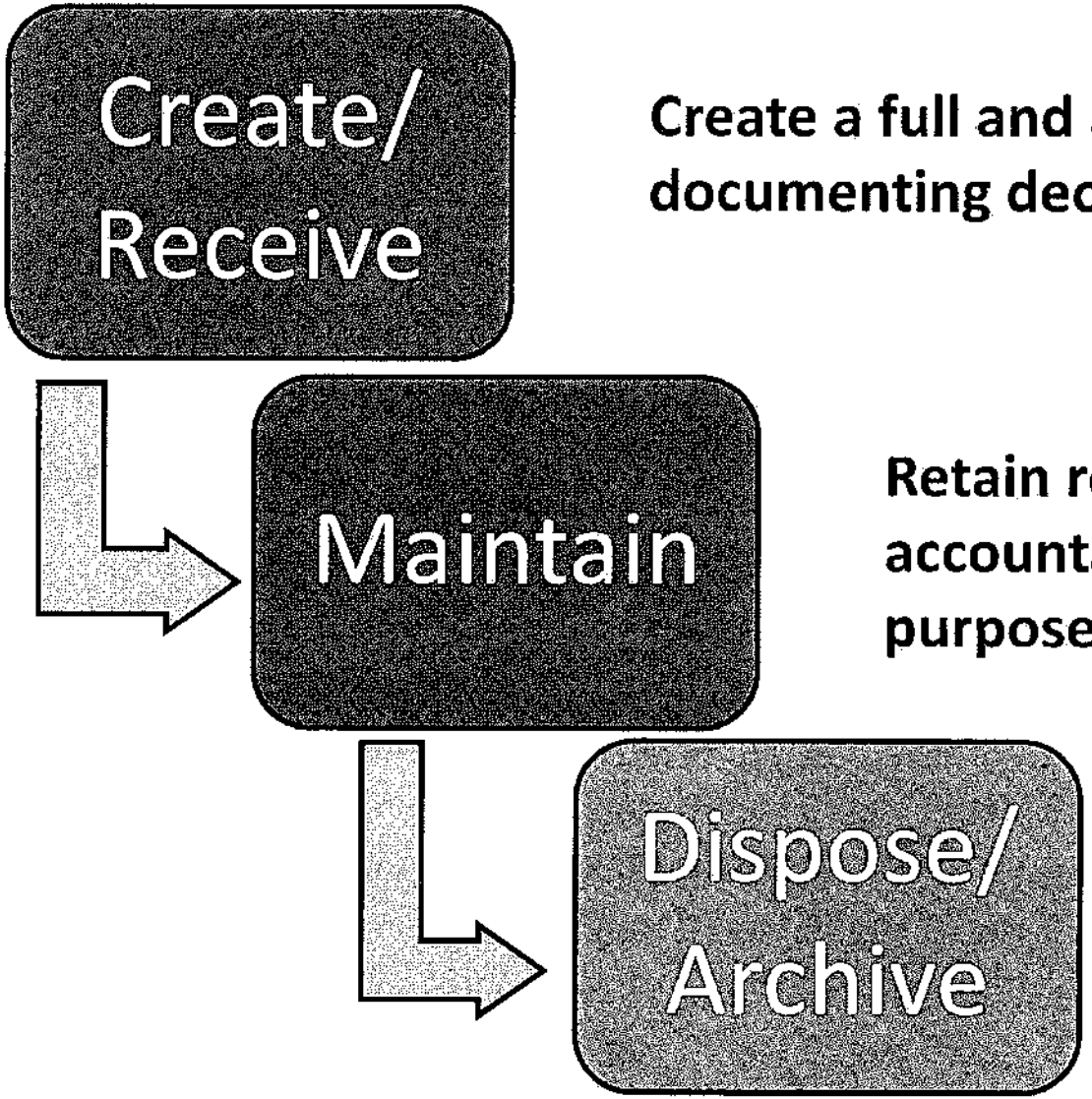
- Email messages are records; they need to be managed according to their content
- **Ministers and Constituency Office Staff are to keep sent email (whether transitory or not) until further notice.**
- Minister's Office email belongs to the office not the individual
- If personal email, or a personal asset is used to conduct ministerial business, FOIPPA would still apply to these records



Calendars

- Your calendar is a record subject to FOI Requests
- Be aware of attachments embedded within calendar entries
- Be current, clear, concise and accurate
- Mark only personal appointments as private

Records Lifecycle



Create a full and accurate record documenting decisions and actions

Retain records for accessibility, accountability and operational purposes

If disposing of records, do so securely and only in accordance with official applicable schedules

Transitory Records

tran·si·to·ry

/ˈtransəˌtôrē, ˈtranzəˌtôrē/

adjective

records that are of temporary usefulness and are needed for only a limited period of time in order to complete a routine action or prepare an ongoing record

"transitory records may be deleted when they are no longer useful"

More

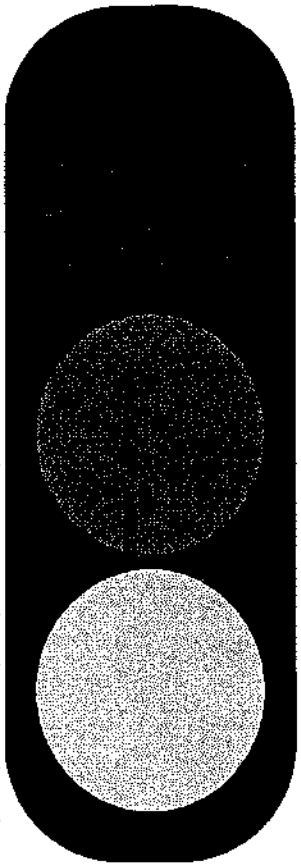
Translations, word origin, and more definitions

“

It is a record’s content and context that determines whether a record is transitory, rather than its form

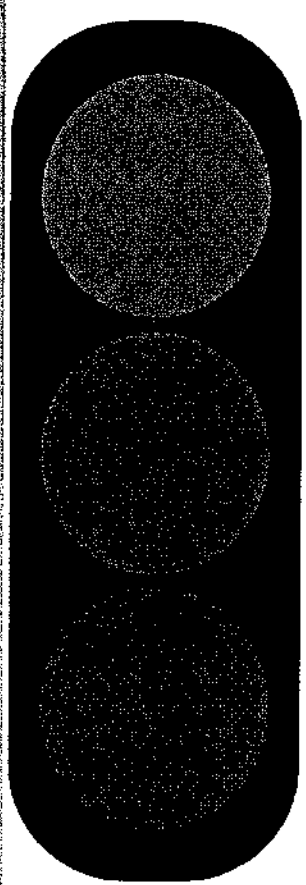
- Elizabeth Denham, Information & Privacy Commissioner

Clearly Transitory



- Redundant records
  - Convenience copies, email superseded by later email in a string of messages, the received copies of a message received by a large audience, procedural emails that result in an official record being filed
- Non-Substantive Drafts
  - Rough working notes and calculations no longer needed for drafting a document
  - Working drafts never circulated or reviewed
  - Drafts whose content (aside from formatting differences, typos, etc.) is fully duplicated in a subsequent record.

Clearly Not Transitory

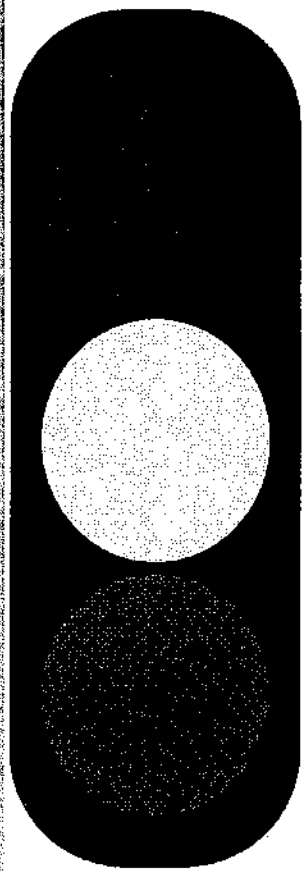


- Treat all records as "official" until proven "transitory"
- **When you are unsure, contact your Records Officer**
- Any "official records", including:
  - » Official invitations and itinerary
  - » Meeting agendas, minutes, and notes
  - » Expenses
  - » Briefing materials

...unless:

- » you know that you are <u>not</u> the OPR,
- » you know who is the OPR, and
- » you know that the OPR is retaining the record

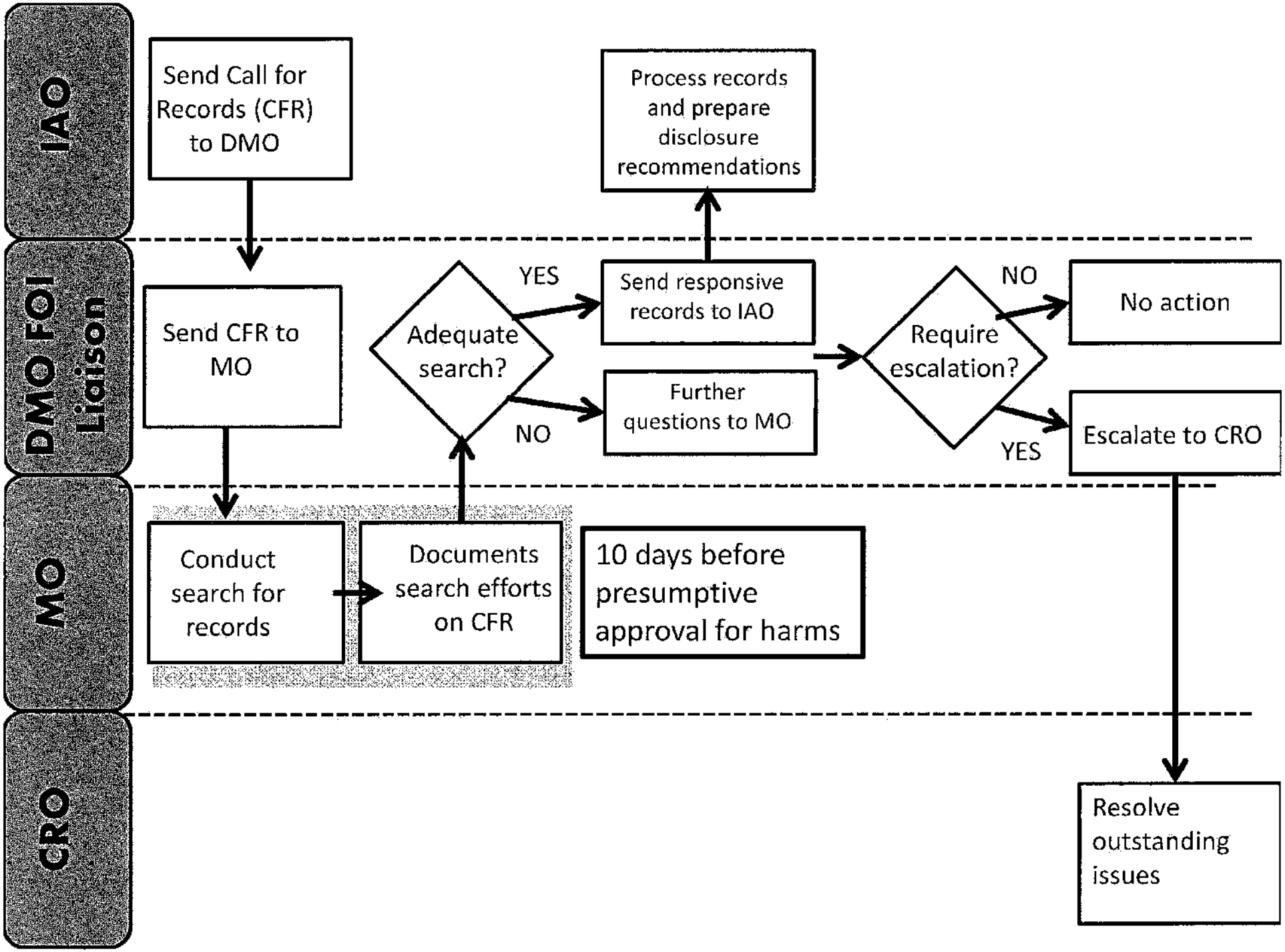
Using Your Judgement



- Does the record document substantive activities, decisions and/or the decision making process of the Minister's Office?
- Is the record significant in relation to the activity for which it was created/used in support?
- Does the information best document the activity it was created or used to support in relation to other records?

Freedom of Information




IAO
DMO FOI Liaison
MO
CRO
Send Call for Records (CFR) to DMO
Send CFR to MO
Conduct search for records
Documents search efforts on CFR
Adequate search?
YES
NO
Send responsive records to IAO
Further questions to MO
Process records and prepare disclosure recommendations
Require escalation?
NO
YES
No action
Escalate to CRO
10 days before presumptive approval for harms
Resolve outstanding issues

Proactive Disclosure and Open Information

- Be prepared to provide Ministerial travel and receipted expense information for proactive release

Open Information

Open Information: http://www.openinfo.gov.bc.ca

“

The measures that are in place to control and guard and monitor the expenditure of dollars are very extensive. We have to take that same culture and discipline and apply it to the protection of private information.

- Hon. Michael de Jong

Information Management Guiding Principles

Right Information

Right Person

Right Purpose

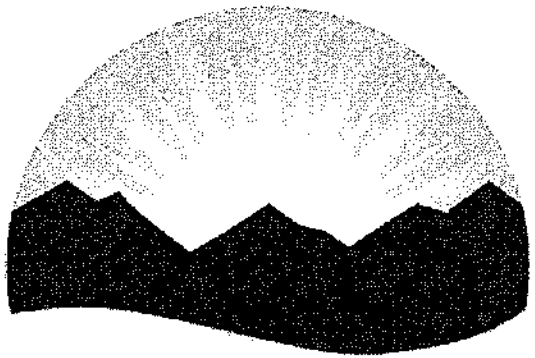
Right Time

Right Way

- Managed based on the "need to know" and least privilege principles
- Access only to the minimum amount of personal information required to perform employment duties
- Access permissions should be assigned consistently and kept up to date

“I have always been motivated by a commitment to ensure our government is open and transparent. We have taken many steps to enhance our laws, policies and procedures to meet this commitment.

- Premier Christy Clark
Dec 16, 2015



BRITISH COLUMBIA

Fenton, Chrystal EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 2:35 PM
To: EAO Executive
Cc: Fenton, Chrystal EAO:EX
Subject: FW: DMC Presentation
Attachments: DM Update and Ministerial Training Slides - Final.pptx

FYI...for discussion at our next Executive meeting.

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:34 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: DMC Presentation

Good afternoon

Attached please find a presentation that had been circulated to DMC by Cheryl Wenezenki-Yolland. For your information only.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Page 0196 to/à Page 0220

Withheld pursuant to/removed as

DUPLICATE

Fenton, Chrystal EAO:EX

From: Smith,Heather [CEAA] <Heather.Smith@ceaa-acee.gc.ca>
Sent: Wednesday, June 29, 2016 10:16 AM
To: Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX
Subject: RE: FOR COMMENT: s.16

Hi Kevin!

I am delighted that you have agreed to co-chair this session proposal! Thank for your comments – the changes look good. I will ensure that you are copied on the submission that is sent in.

You've made some great suggestions for who to invite to participate on the panel. Once we hear whether it is accepted, let's strategize further.

Cheers!

Heather Smith
Vice-President / Operations
Canadian Environmental Assessment Agency / Government of Canada-
Heather.Smith@ceaa-acee.gc.ca / Tel: 613-948-2665 / Fax: 613-957-0935

Vice-Présidente / Opérations
Agence canadienne d'évaluation environnementale / Gouvernement du Canada
Heather.Smith@ceaa-acee.gc.ca / Tél. : 613-948-2665 / Fax: 613-957-0935

Government of Canada / Gouvernement du Canada

Canada

From: Jardine, Kevin EAO:EX [mailto:Kevin.Jardine@gov.bc.ca]
Sent: June 28, 2016 7:50 PM
To: Smith,Heather [CEAA]; Carr, Michelle EAO:EX
Subject: RE: FOR COMMENT s.16

Thanks once again for this, Heather.

Your submission looks good and, yes, I would be very pleased to co-chair the session. To that end, I've made a very few suggested amendments in the attached for your consideration.

I agree also that the panel discussion format is certainly the most appropriate given the subject matter and, if nothing else, will ensure an engaging session.

s.13,s.16

I otherwise look forward to hearing from you in due course regarding next steps.

Best rgds,

K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO | Environmental Assessment Office

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From: Smith,Heather [CEAA] [mailto:Heather.Smith@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 3:18 PM
To: Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX
Subject: FOR COMMENT: s.16
Importance: High

Hi Kevin and Michelle!

Please find attached your comments a proposed submission for the IAIA 2017 Annual Conference in Montreal. You will see that I have put your names in square brackets in the proposed submission. If you agree to co-chair, I will change my name from lead chair to "co-lead".

There are a range of possible formats for the sessions. The two most relevant presentation options are:

Paper session: In a paper session, authors orally present the findings of a prepared paper or project. A chaired Paper session typically allows 4-5 presentations of 15-20 minutes each, including time for specific questions. Ideally, the chair allocates a minimum of 20 minutes for general questions and open discussion following the presentations.

Panel discussion: In a panel, the speakers are invited. The chair introduces each speaker and puts each talk in perspective. Each speaker gives a brief (10-15 minutes) prepared presentation, usually presenting a different view or experience on the topic, followed by debate between the speakers and questions from the audience facilitated by the chair.

s.16

Can you please let me know if you are willing to participate in organizing the session by Wednesday? I know it is short notice, but we need to get the submission in by June 30th. Cheers!

Heather Smith
Vice-President / Operations
Canadian Environmental Assessment Agency / Government of Canada-
Heather.Smith@ceaa-acee.gc.ca / Tel: 613-948-2665 / Fax: 613-957-0935

Vice-Présidente / Opérations
Agence canadienne d'évaluation environnementale / Gouvernement du Canada
Heather.Smith@ceaa-acee.gc.ca / Tél. : 613-948-2665 / Fax: 613-957-0935



Government of Canada Gouvernement du Canada

Canada

Fenton, Chrystal EAO:EX

From:	James Frolich s.22
Sent:	Wednesday, June 29, 2016 1:23 PM
To:	Carr, Michelle EAO:EX
Subject:	Re: Adaptive Management questions

Hi Michelle, I heard back from Paul Jeakins and at the moment he is thinking to meet on July 22, although that is not certain nor is a time set. Thus, if it worked for you and your colleagues that day is starting to look best. Thanks again, James

James W. Frolich, BA, MBA
s.22

On Tue, Jun 28, 2016 at 1:40 PM, James Frolich <s.22 > wrote:

Hello Michelle, it has been a while and I hope all is well. You may recall that we met while I was EA Division Manager at Golder; later, when I ran the Golder LNG program, you and I met at an LNG event where we were both speakers. s.22

Since then I have been consulting with local environmental companies on various strategic issues. I have also been staying involved in the LNG sector and assisting proponents and consultants with planning for environmental management as they head toward Final Investment Decision and construction. One of the consultants is Essa Technologies, which is a leader in Adaptive Management, planning monitored and responsive approaches to environmental mitigation during project development and operation.

We have noted that Adaptive Management is required by the EAC conditions for some of the projects that are more recently approved. It is somewhat unclear to us, not having been in the EA process on these projects, what is intended by that requirement, and to what extent the province and others are expecting to see formal management programs implemented. We would like to understand better and, as appropriate, contribute some of Essa's lessons learned to the discussion.

To that end, would it be possible to meet with you, and/or appropriate project or policy staff at the EAO to discuss Adaptive Management and what you see as important in that area? I would bring along two senior experts from Essa and we are fairly flexible on timing. I am trying to set up a day of meetings in Victoria and my preference would be mid-July, say perhaps July 15 or 22 if that worked. With me flying over from Vancouver late morning or early afternoon is best. (Realizing that my question is also relevant to the permitting process, I have also asked Paul Jeakins if we can meet with some of his colleagues at the OGC when I am in town.)

Thanks in advance for helping me out. I look forward to hearing from you and hopefully seeing you, or your colleagues, sometime soon. In the meantime, enjoy the long weekend coming up. Best regards, James Frolich

James W. Frolich, BA, MBA
s.22

Loiacono, Sabrina EAO:EX

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:24 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: Merit Commissioner Annual Report 2015 / 16
Attachments: 2015-2016_Annual_Report-Merit_Commissioner-double_page_view.pdf

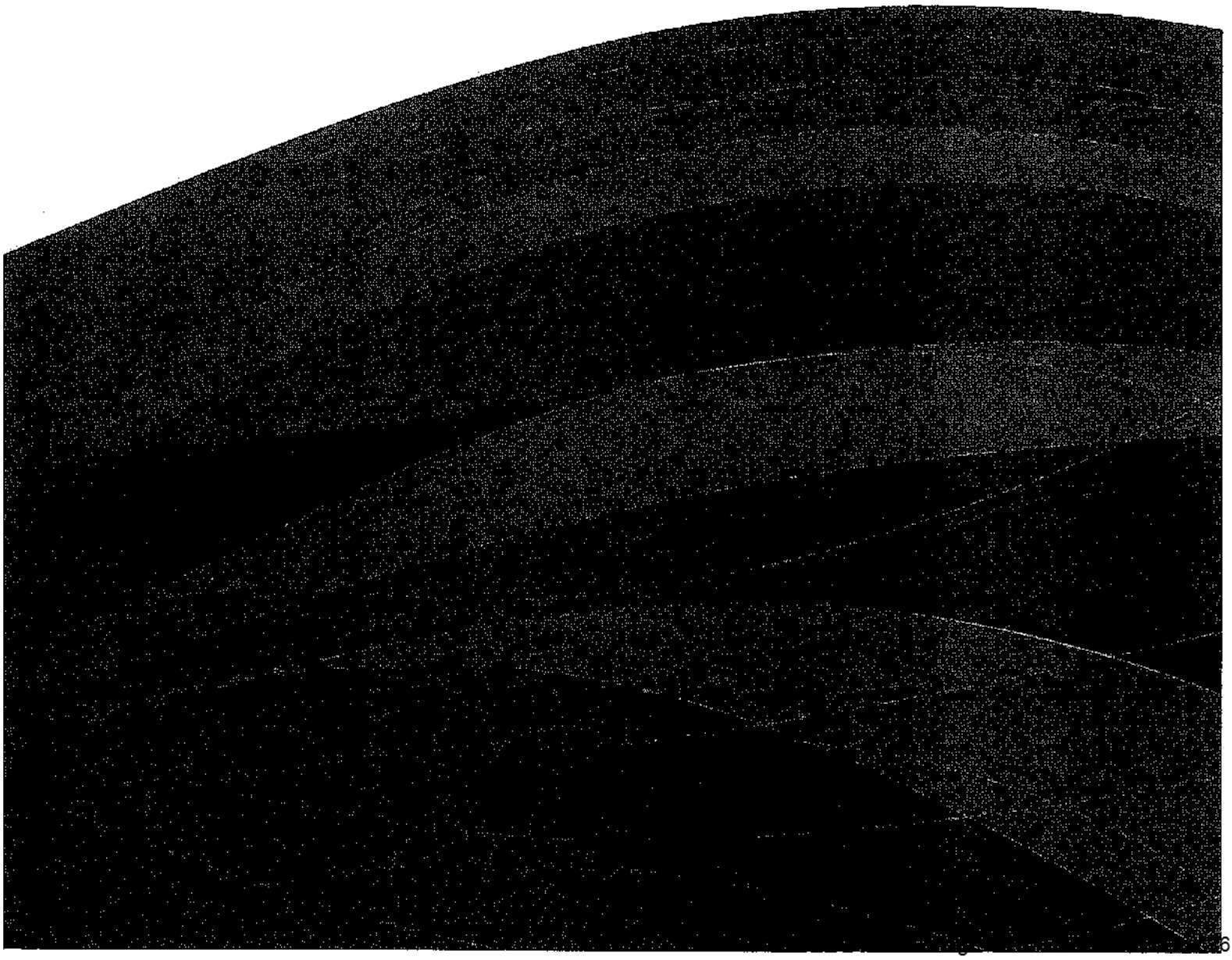
For your review/interest.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 250-387-6003 |

Merit Commissioner

Annual Report 2015/16

UPHOLDING FAIR HIRING IN THE BC PUBLIC SERVICE





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Office of the
Merit Commissioner

The Honourable Linda Reid
Speaker of the Legislative Assembly
Province of British Columbia
Parliament Buildings, Room 207
Victoria, British Columbia V8V 1X4

Dear Madam Speaker:

It is my honour to present the 2015/16 Annual Report of the Merit Commissioner. This report is submitted pursuant to section 5.2 of the *Public Service Act*, Chapter 385 of the Revised Statutes of British Columbia.

As an Officer of the Legislative Assembly, I would be pleased to appear and report further on these matters at the request of the Members of the Legislative Assembly.

Respectfully submitted,

Fiona Spencer

Fiona Spencer
Merit Commissioner

Victoria, British Columbia
May 2016

Suite 502 – 947 Fort Street
PO Box 9037 Stn Prov Govt
Victoria, BC V8W 9A3

Phone: 250.953.4208
Fax: 250.953.4160
www.meritcomm.bc.ca

Merit Commissioner

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Fiona Spencer
Merit Commissioner

Message from the Merit Commissioner

I am pleased to present this 2015/16 Annual Report. As my current term comes to an end, I remain confident in the value of the work of the Office and look forward to continuing in this important role as I begin a new term.

This past year, we have maintained focus on our core lines of business: completing employee-requested reviews of staffing decisions and undertaking audits of randomly selected appointments to and from within the BC Public Service. I strongly believe that, if acknowledged and adopted, the findings and recommendations resulting from our audit of hiring processes can produce positive change and improve the ability of the organization to succeed.

Our annual audits are conducted to determine if hiring processes are reasonable, fair and consistent, and result in appointments based on the principle of merit. In addition to providing deputy ministers and heads of organizations with an individual audit report for each appointment audited within their organization, we also report the collective audit results to them, to the Legislative Assembly, and to the BC Public Service Agency.

Our audits are designed to provide positive assurance where appropriate. However, given that hiring processes change from year to year, competition to competition, and even hiring manager to hiring manager, we often find some aspects of the hiring process that could be improved. The hiring process is not static – change is essential if the process is to adapt to a myriad of evolving circumstances in the work environment. Audits can assess newly introduced practices or provide a safeguard by detecting problems early and preventing those problems from being incorporated into subsequent hiring processes. As it may be difficult to anticipate the implications of new approaches until they are put into practice, audits provide a valuable means of identifying weaknesses or problem areas. Audits also identify areas where improvements to systems or processes are needed to help ensure that the principle of merit-based hiring is respected.

Taken as a whole, our audits allow us to draw conclusions about the extent to which appointments during the period audited were the result of a merit-based recruitment and selection process. They provide an independent third-party perspective on the state of merit-based hiring in the BC Public Service.

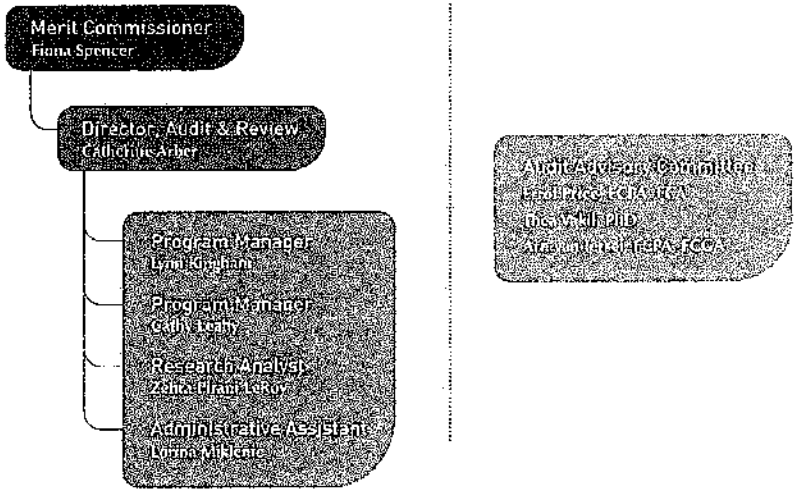
Details of our audit results, which are summarized in this Annual Report, can be found on our website, along with information related to staffing reviews. I continue to be encouraged that the work of the Office of the Merit Commissioner is used by individuals and organizations for learning and to enhance their merit-based hiring practices.

Fiona Spencer

Fiona Spencer, Merit Commissioner

The Office of the Merit Commissioner

The Merit Commissioner is appointed by the Legislative Assembly on a part-time basis for a three-year term. The Office of the Merit Commissioner (the Office) consists of a small team of core staff supplemented by contract auditors.



Our Audit Advisory Committee provides a forum for discussion, consultation, advice and guidance with respect to our audit program and process. Members are selected for their professional qualifications, relevant knowledge about the public service and expertise related to performance audits. The Committee meets periodically with the Merit Commissioner and her staff to provide audit advice, contribute to audit planning and examine issues of interest.

The Office is guided by the principles of fairness and impartiality. We apply to ourselves the same standards of integrity in performance and accountability that we apply to others and we make certain all those who contact the Office are treated with respect. We are passionate about our work and understand that a vital part of being independent is to have the courage to deliver facts and recommendations about where improvements are needed, as well as to report on progress and accomplishments.

The Merit Principle

The *Public Service Act* states that all appointments to and from within the BC Public Service must be based on the principle of merit. Merit is commonly accepted to mean that appointments are based on an assessment of competence and ability to do the job, and are non-partisan.

Vision

A professional and non-partisan public service that is hired and promoted on the principle of merit.

Mission

To serve the people of British Columbia through their elected representatives of the Legislative Assembly, by monitoring public service appointments to ensure the application of the merit principle in hiring and promotions in the BC Public Service.

Role

The Merit Commissioner provides independent oversight of and insight into the conduct of merit-based hiring in the BC Public Service. The Office achieves this oversight by randomly auditing staffing appointments, conducting special audits and studies, and reviewing appointment decisions upon request by employee applicants. The Office also informs hiring managers, employees and the public of our findings through reports and studies. As well, we deliver presentations to increase awareness about the value of merit-based hiring practices. The Merit Commissioner reports annually to the Legislative Assembly on the application of the merit principle in the BC Public Service.

Stakeholders

The Office provides oversight of provincial government organizations that have employees appointed under the *Public Service Act* (the *Act*), including: ministries, tribunals, agencies, boards, commissions, independent offices of the Legislature, and the offices of the Courts. The Office broadly shares responsibility for upholding merit-based hiring and promotions in the BC Public Service with key stakeholders as illustrated in Table 1.

Table 1 – Stakeholder Responsibilities for Merit-Based Hiring

Deputy Minister, BC Public Service Agency	Sets staffing policy and the accountability framework for human resource management with the Deputy Ministers' Council
	Provides staffing support and training to client groups
	Delegates responsibilities for staffing activities to deputy ministers and heads of organizations
	Authorizes direct appointments
	Receives and takes action as appropriate on the Merit Commissioner's audit and study findings
Deputy Ministers and Organization Heads	As a Council, carry out the corporate human resource plan
	Create and lead a culture supportive of merit-based hiring
	Sub-delegate staffing activities to line managers and supervisors
	Hold hiring managers accountable for hiring decisions
	Respond to requests at the second step in the staffing review process
	Receive and take action as appropriate on the Merit Commissioner's audit and staffing review decisions
Hiring Managers	Acquire and maintain the knowledge and skills required to conduct merit-based hiring processes
	Make fair and unbiased hiring decisions
	Respond to requests at the first step in the staffing review process by providing feedback

Fair hiring practices are of significant interest to employees and are key to their engagement and retention. Employees can have a positive impact on hiring practices when they raise issues and concerns, as that helps us gauge the state of merit-based hiring within the BC Public Service, and may contribute to informing the Office's work related to future audits and special studies.

The bargaining units that represent most BC Public Service employees (BC Government and Service Employees' Union [BCGEU], the Professional Employees Association [PEA], and the nurses' unions), as well as the BC Excluded Employees' Association, have long records of encouraging and supporting merit-based hiring in the public service.

Our Work

The Office has two main lines of business: conducting merit performance audits and, upon request, reviewing individual staffing decisions. The following sections include synopses of work completed during 2015/16 and work in progress. Detailed reports related to the work we completed in 2015/16 and past years can be found at www.meritcomm.bc.ca.

Merit Performance Audits

Overview

The Office monitors the application of the principle of merit in the BC Public Service by conducting random audits of permanent appointments and temporary appointments greater than seven months. Any organization to which section 8 of the *Act* applies may be audited by the Office.

Appointments on Merit

Section 8(1) of the *Act* states that, other than in some defined exceptions, appointments to and from within the public service must (a) be based on the principle of merit, and (b) be the result of a process designed to appraise the knowledge, skills and abilities of eligible applicants.

We conduct audits in accordance with generally accepted professional audit standards and methodology, work with independent statisticians to ensure rigour and objectivity in obtaining random and representative samples, and incorporate quality assurance reviews into the audit process.

In accordance with section 5.1(a) of the *Act*, the purpose of a merit performance audit is to determine:

(a) whether the recruitment and selection processes were properly applied to result in appointments based on merit, and

(b) whether the individuals when appointed possessed the required qualifications for the positions to which they were appointed.

Recruitment and Selection Process

In accordance with an established audit program, we determine whether the design and conduct of a hiring process led to a merit-based appointment. As part of this determination, we consider the application of relevant legislation, policy, and provisions of collective agreements, such as whether the factors of merit were appropriately assessed, and whether the hiring decisions were properly communicated to employee applicants. The overall approach (i.e., process) employed to recruit and select applicants is examined, as well as specific aspects of the process, which we categorize as assessment (e.g., short-listing, testing, and interviewing), past work performance, years of continuous service and notification. In addition, consideration is given to whether there was sufficient supporting documentation (i.e., evidence) of the actions taken and decisions made. The detailed audit program can be viewed at **www.meritcomm.bc.ca**.

For each recruitment and selection process audited, one of the findings described in Table 2 is made.

Individual Appointed

We also determine, in accordance with the established audit program and based on the evidence provided, whether the individual appointed possessed the education and experience specified as required for the position and met the minimum criteria established for the other factors assessed during the process. With respect to the individual whose appointment is being audited, this determination leads to one of the findings described in Table 3.

Factors of Merit

Section 8(2) of the *Act* sets out the matters to be considered in determining merit, which must include the applicant's education, skills, knowledge, experience, past work performance and years of continuous service.

Table 2 – Recruitment and Selection Process Findings

Merit	The appointment was the result of a process designed to assess the factors of merit based on the duties to be performed. The process was applied in an objective and transparent manner, and assessment decisions were fair and reasonable.
Merit with exception	Overall, the appointment was the result of a merit-based process; however, one or more issues were found with the design or application of the process, none of which had an identifiable negative impact on the outcome.
Merit not applied	The appointment was not the result of a merit-based process. A critical flaw or error was found in the design or application of the process, which resulted in an identifiable negative impact on the outcome.
Did not demonstrate	There was insufficient evidence provided to demonstrate that the design or application of the process was based on merit.

Table 3 – Individual Appointment Findings

Qualified	The individual, when appointed, possessed the qualifications specified as required for the position.
Not qualified	The individual, when appointed, did not possess the qualifications specified as required for the position.
Did not demonstrate	There was insufficient evidence provided to demonstrate that the individual, when appointed, possessed the qualifications specified as required for the position.

Audit findings for each appointment are reported to the respective deputy minister or organization head. A report of overall results is provided to the Deputy Minister of the BC Public Service Agency (Agency Head) and presented to the Legislative Assembly before being posted on our website. The audit findings and report acknowledge and support good hiring practices throughout the BC Public Service and also hold managers accountable for hiring decisions. The merit performance audit is a means of bringing issues and opportunities for improvement to the attention of the Agency Head, deputy ministers and organization heads.

Audit Determinations

Each audit results in two determinations: whether the recruitment and selection process was based on merit; and whether the individual appointed was qualified.

Work Completed

2014/15 Merit Performance Audit

The Office moved from a calendar year to a fiscal year audit cycle during 2013/14, and in 2014/15 we conducted our first full fiscal year audit. A graphic representation of the timeline for the 2014/15 Merit Performance Audit is shown in Chart 1.

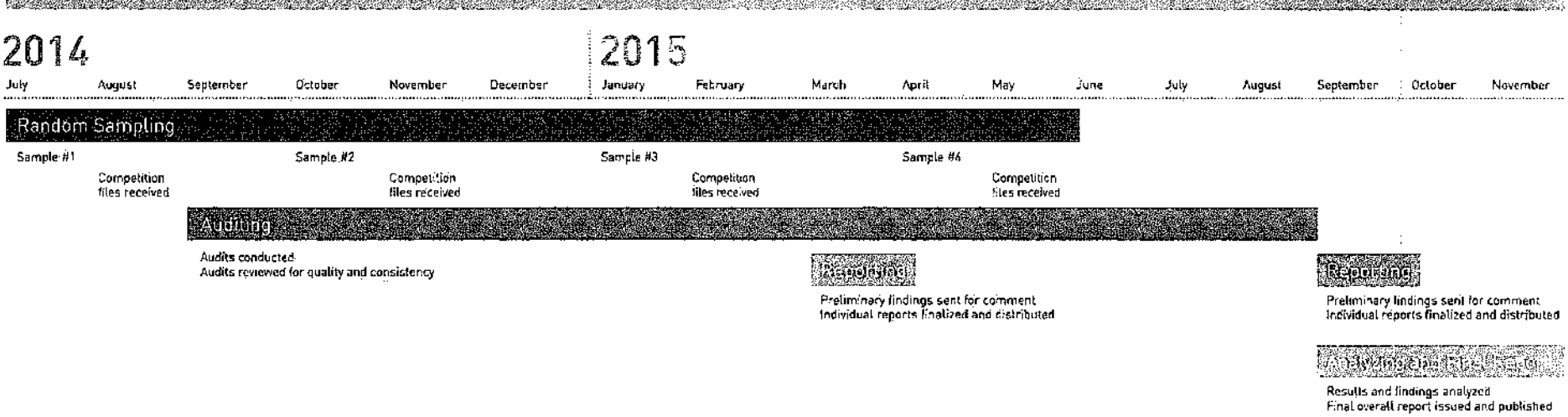
The appointments audited in the 2014/15 Merit Performance Audit were randomly selected by BC Stats from a population of 4,045 appointments made between April 1, 2014 and March 31, 2015. To ensure these appointments were representative of the overall appointment population, the data was stratified by organization size (up to 1,000 employees or more than 1,000 employees) and appointment type (permanent, temporary exceeding seven months, or direct appointment). An overall sampling rate of six per cent ensured that audit results would be generalizable to the same types of appointments across the BC Public Service. A total of 252 appointments were selected, of which nine were determined to be outside the scope of the audit and removed from consideration. The Office conducted audits of the remaining 243 hiring processes.

Where preliminary findings of "merit not applied" were made, we provided the responsible deputy minister or organization head with the draft results and the opportunity to provide additional or clarifying information. They also received a final report for each appointment audited within their organization. At the conclusion of the audit, we completed a comprehensive analysis of the overall findings. Our findings and analysis were reported to the Legislative Assembly in November 2015, were published on our website, and are summarized as follows.

Individual Appointed

The 2014/15 Merit Performance Audit found that all individuals whose appointments were selected for audit possessed the education and experience specified as required for the position to which they were appointed and met the minimum criteria established for the other factors which were assessed during the selection process.

Chart 1 – 2014/15 Merit Performance Audit Timeline



Recruitment and Selection Process

The audit found that 60 per cent of appointments were the result of a merit-based recruitment and selection process with no issues or flaws. An additional 32 per cent of appointments were found to be in the "merit with exception" category: this determination indicates one or more issues with the recruitment and selection process, ranging from minor to serious, that did not have an identifiable negative impact on the outcome. The "merit not applied" findings show that flaws in the process affected the outcome in eight per cent of the audited appointments. Based on the extrapolations provided by BC Stats, this means that an estimated 1,280 appointments made throughout the BC Public Service in 2014/15 had issues which were considered to be exceptions to merit-based hiring and 2,306 did not. As well, a total of 329 appointments made throughout the BC Public Service in 2014/15 were estimated to have been the result of a flawed process (i.e., they were not merit-based).

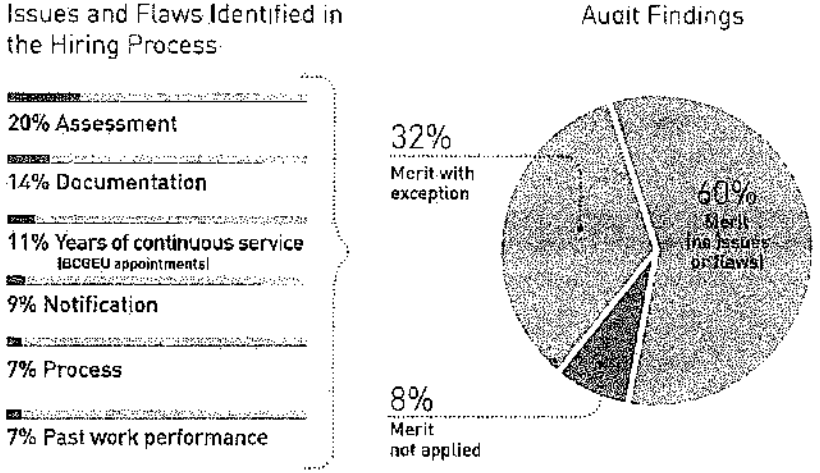
The issues and flaws identified with the design and application of the recruitment and selection process were grouped into the following categories: process, assessment, past work performance, years of continuous service, notification and documentation. These categories are described in Table 4.

Table 4 – Categories of Issues and Flaws

Category	Audit Considerations
Process	Was the overall approach to recruit and select applicants fair, reasonable and transparent, given the job and its requirements?
Assessment	Were applicants consistently and appropriately evaluated in accordance with the following factors of merit: education, skills, knowledge and experience?
Past work performance	Was this factor properly assessed, including at least one reference from a supervisor or equivalent?
Years of continuous service	Was this factor properly considered, and assessed where applicable?
Notification	Were employee applicants notified of the final outcome of the hiring process?
Documentation	Was there sufficient documentation to show that process, actions and decisions were transparent, consistent, relevant and reasonable?

The frequency of the identified issues and flaws that led to "merit with exception" or "merit not applied" findings are indicated in Chart 2. While many appointments had more than one issue or flaw identified, there was only one overall finding reported for each audit.

Chart 2 – 2014/15 Merit Performance Audit Findings



The 2014/15 audit found an overall improvement from 2013/14 in the percentage of hiring processes free of issues or flaws. Similar to 2013/14, the highest number of problematic findings related to the areas of assessment or documentation. It was also noted that errors in calculating years of continuous service markedly increased in 2014/15. This may have resulted from the introduction of a new formula for this calculation and will be monitored going forward.

2014/15 Merit Performance Audit Recommendations

Based on the analysis of the 2014/15 Merit Performance Audit findings, the Merit Commissioner made a number of recommendations to deputy ministers and organization heads to strengthen merit-based hiring. These recommendations, which follow, highlight areas for improvement related to process, assessment, and notification. It is recognized that the BC Public Service Agency's action and assistance may be necessary to support their implementation.

- Ensure appointments are made using a competitive process which, at a minimum, allows for the possibility of a reasonable applicant pool and evaluation of applicants, rather than using an approach which has only one possible outcome.
- When using the results of a previous competitive process, confirm that the position to be filled is similar enough to the initial vacancy to legitimately use the results; and give consideration to the continued validity of the results when circumstances, such as time elapsed since the initial competition, are taken into account.
- Ensure the qualifications advertised as minimum requirements are accurate and are not reduced at the short-listing stage.
- Establish meaningful and sufficient assessment standards for each element of the selection process.
- Ensure final notification of the competition outcome to employee applicants includes those eliminated during screening or early stages of the process.

Work Underway

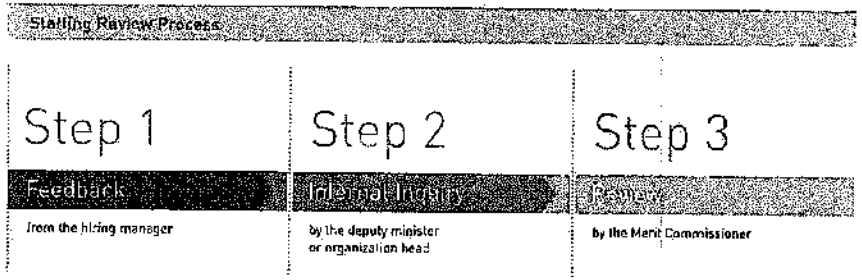
2015/16 Merit Performance Audit

The 2015/16 Merit Performance Audit of appointments made from April 1, 2015, through March 31, 2016, is currently underway. Random samples of appointments were drawn each quarter, and in March 2016 audit reports for 166 appointments from the first two quarters were provided to deputy ministers and organization heads. In the fall of 2016 the audit reports for appointments identified in the last two quarters of the fiscal year are expected to be distributed. The final comprehensive report, including the analysis and summary of the overall audit results, is targeted for publication in November 2016.

Staffing Reviews

Overview

The *Act* provides employee applicants who are unsuccessful in competitions for permanent appointments or temporary appointments exceeding seven months with the right to request a review of the appointment decision. There is a three-step staffing review process which an employee may initiate when notified of a competition outcome.



The third step in the process, a review by the Merit Commissioner, is available to employees who are applicants for bargaining unit positions. Should the employee proceed to this step, the Merit Commissioner conducts an independent review and determines whether the aspects of the selection process related to the employee's grounds comply with the requirements of section 8(1) of the *Act*. If the appointment is determined to comply, the Merit Commissioner upholds the appointment decision; if not, she directs a reconsideration of the appointment decision. The Merit Commissioner's decisions are final and binding. In general, decisions are issued within 30 days following receipt of the documents necessary to conduct the review.

Work Completed

2014/15 Report on Staffing Reviews

An analysis of the 15 eligible staffing reviews conducted during 2014/15 was completed in the spring of 2015 and a final report was published on our website in June 2015. Given the relatively small number of reviews, broad conclusions were not drawn; however, the report discussed several common grounds put forward by the employees who requested this final level of examination of appointment decisions. These grounds, representative of employee concerns, included: the improper consideration or weight given to a factor of merit (typically experience); the unfair use of behavioural interviewing and/or the incorrect assessment of behavioural

competencies; the assessment of past work performance based on a sole and/or inappropriate referee or an assessment inconsistent with previous evaluations; and the incorrect calculation of years of continuous service.

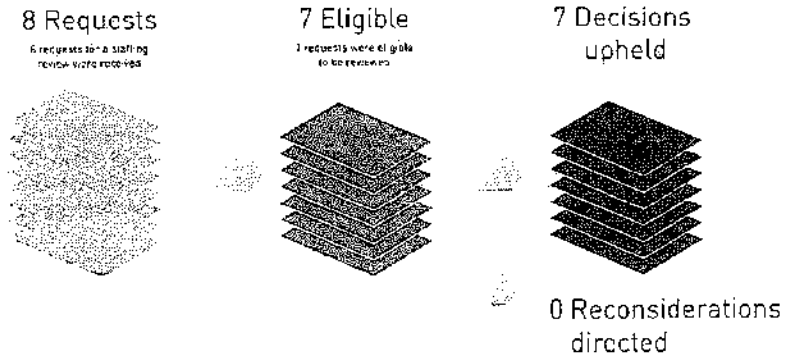
In 10 of the cases, the Merit Commissioner dismissed the review and upheld the original appointment decision. In the other five cases, she found that in relation to one or more aspects of the employee's grounds, the process was not in compliance with section 8(1) of the *Act* and she directed a reconsideration of the appointment decision. In 2014/15, although reconsiderations were directed in a record high 33 per cent of the reviews conducted, flaws found in the competitions were unique to the particular circumstances and were not considered indicative of any major shifts in merit-based hiring practices.

The Merit Commissioner did identify a significant area of concern with respect to the provision of feedback to unsuccessful employee applicants, which is the first step in the staffing review process. As in previous years, there were several instances where unsuccessful applicants were not provided with a sufficient explanation as to why they were not successful. Complete, clear and timely feedback is essential to ensuring unsuccessful employee applicants understand how they were assessed in a selection process and have the best information available should they choose to exercise their right to a staffing review.

2015/16 Staffing Reviews

In 2015/16, the Merit Commissioner received eight requests for review of appointments within five different ministries or organizations. The majority of these requests requests involved in-service competitions for permanent appointments. One request was deemed ineligible, as no internal inquiry had been conducted. Reviews of the remaining seven appointments were undertaken.

The conduct of each review included a detailed analysis of the documented evidence contained within the competition file, supplemented by information obtained through discussions with the employee requesting the review, the hiring manager and, where necessary, with other relevant individuals such as hiring panel members. Each review was guided by the requirements of legislation, collective agreement provisions, and hiring policies. Consideration was given as to whether the hiring process was fair and transparent, the assessment conducted was relevant to the job, and the decisions made were reasonable.



The Merit Commissioner issued seven decisions in 2015/16. Each decision was rendered after thoughtful consideration of the employee's concerns and a thorough examination of the hiring process. In each case, the appointment was found to be merit-based.

The reviews were concluded, on average, within 29 days and the detailed reports shared with the employee and responsible deputy minister or organization head.

2015/16 Grounds for Review

Common grounds for review in the fiscal year included:

- insufficient recognition or credit given to extensive related experience;
- too many or too few applicants short-listed;
- irrelevant criteria used to short-list applicants;
- insufficient points awarded to test or interview responses; and
- inconsistencies with previous assessment processes for similar positions.

Work Underway

2015/16 Report on Staffing Reviews

An analysis of the staffing reviews conducted in 2015/16 is being undertaken and a final report will be published in the summer of 2016. Recurring themes in employees' grounds provide the Office with insight into areas where future audits or studies of specific aspects of the hiring process may be warranted.

Special Studies

Study of Self-Assessment Questionnaires

In conducting audits and reviews of BC Public Service appointments, the frequent use of self-assessment questionnaires as a short-listing tool was observed. As short-listing is generally the first step in a selection process, and the inappropriate or incorrect use of self-assessment questionnaires could potentially have a significant impact on merit-based hiring processes, we concluded that an examination of this practice was warranted.

We conducted a special study of this recruitment and selection tool and found that self-assessment questionnaires are effective where they are well-designed, applied thoughtfully and used in the appropriate circumstances. Further, it was apparent that the BC Public Service Agency had identified the limitations of using self-assessment questionnaires and had taken steps to mitigate these shortcomings. We are aware of the ongoing improvements being made in this regard and will continue to observe on the use of this tool as part of our regular random audit of appointments. A summary report of the study's findings was posted on our website in the fall of 2015.

Budget

The Office's operating budget and expenditures for the 2015/16 fiscal year are shown by expenditure type in Table 5.

In November 2015, the Merit Commissioner met with the Select Standing Committee on Finance and Government Services to review results of the work of the Office over the previous year, establish priorities for the year ahead and review budget requirements for the next three fiscal years. The Committee acknowledged the work of the Office and endorsed the Service Plan as it was presented. Subsequently, the Office was allocated a budget of $1,054,000 for fiscal 2016/17. Details of this budget allocation are also shown in Table 5.

Table 5 – Budget and Expenditures

	Approved Budget 2015/16	Actual Expenditures 2015/16	Approved Budget 2016/17
Salaries & Benefits	$611,000	$579,950	$637,000
Travel Expenses	$15,000	$17,000	$15,000
Office Expenses	$328,000	$302,370	$302,000
Professional Services	$100,000	$148,178	$100,000
Total	$1,054,000	$1,047,498	$1,054,000

Note: As of April 1, 2015, shared services costs previously reported as salaries & benefits are reported as office expenses.

Merit-based hiring is an important part of:

- building a qualified and professional public service;
- sustaining an engaged and productive workforce;
- demonstrating credible leadership; and
- maintaining public trust.

Appendix A

Organizations Subject to Oversight by the Merit Commissioner

(as of March 31, 2016)

Ministries

Aboriginal Relations and Reconciliation
Advanced Education
Agriculture
Children and Family Development
Community, Sport and Cultural Development
Education
Energy and Mines
Environment
Finance
Forests, Lands and Natural Resource Operations
Health
International Trade
Jobs, Tourism and Skills Training
Justice
Natural Gas Development
Public Safety and Solicitor General
Small Business and Red Tape Reduction
Social Development and Social Innovation
Technology, Innovation and Citizens' Services
Transportation and Infrastructure

Independent Offices

Auditor General
Elections BC
Information and Privacy Commissioner
Merit Commissioner
Ombudsperson
Police Complaint Commissioner
Representative for Children and Youth

Courts of British Columbia

Provincial Court of BC
Supreme Court of BC
BC Court of Appeal

Other Public Sector Organizations

Agricultural Land Commission
Auditor General for Local Government
BC Human Rights Tribunal
BC Pension Corporation
BC Public Service Agency
BC Review Board
Community Care and Assisted Living Appeal Board
Destination BC
Employment and Assistance Appeal Tribunal
Environmental Appeal Board
Financial Institutions Commission
Financial Services Tribunal
Forest Appeals Commission
Forest Practices Board
Health Professions Review Board
Hospital Appeal Board
Independent Investigations Office
Islands Trust
Office of the Premier
Oil and Gas Appeal Tribunal
Property Assessment Appeal Board
Public Guardian and Trustee
Public Sector Employers' Council Secretariat
Royal BC Museum
Safety Standards Appeal Board
Surface Rights Board



Merit Commissioner

Suite 502 – 947 Fort Street
PO Box 9037 Stn Prov Govt
Victoria, BC V8W 9A3

Phone: 250.953.4208
Fax: 250.953.4160
www.meritcomm.bc.ca

Printed on recycled paper

Fenton, Chrystal EAO:EX

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:49 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX; Barillaro, Scott W ENV:EX
Cc: Gilmour, Lori ENV:EX; Gooderham, Coleen E ENV:EX; Llewellyn-Thomas, Marnie ENV:EX; Quin, Melissa ENV:EX; Cameron, Tara D ENV:EX; Stainton, Beverley ENV:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: Article 29 Joint Committee appointments
Attachments: Scan_20160629.pdf

Sending for your information only.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

cc: Jim Standa

BCGEU

B.C. Government and Service Employees' Union
A component of NUPGE (CLC)

May 24, 2016

Wes Shoemaker
Deputy Minister
Ministry of Environment
PO Box 9120 Stn Prov Govt
Victoria, BC V8W 9B4

Dear Mr. Shoemaker:

Re Article 29 Joint Committee appointments

I am pleased to advise you of a change in the BCGEU appointees to your Ministry's A29 committee. Our appointees are:

1. George Buis
2. Jo-Anne Chartrand
3. Tony Litke
4. Hugo Mulyk
5. **Megan Scott – BCGEU Staff Representative (replacing Doug Dykens)**

As you know, the committee is an important venue to address employees issues and concerns as well as providing a forum for your ministry to consult with the union.

Please ask your representative to contact Megan Scott at 604-291-9611 for any dealings with this committee.

Thank you for your cooperation and assistance.

Sincerely

Stephanie Smith
President

cc: MA 29 BCGEU Committee
Megan Scott, Staff Representative
Doug Dykens, Regional Coordinator

Moveup/dm ma 29 ltr agr

4911 Canada Way, Burnaby, B.C., V5G 3W3 **www.bcgeu.ca**
Tel: 604-291-9611 Toll Free: 1-800-663-1674 Fax: 604-291-6030 Toll Free Fax: 1-800-946-0244

Pizarro, Kirsten EAO:EX

Subject:	Orca Sand & Gravel - amendment of "old" EAC plus CEAA implications
Location:	Karen's Office
Start:	Wed 2016-06-29 11:30 AM
End:	Wed 2016-06-29 12:00 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Christie, Karen L EAO:EX
Required Attendees:	Craven, Paul EAO:EX

Pizarro, Kirsten EAO:EX

From: Cousins, Autumn EAO:EX
Sent: Wednesday, June 29, 2016 10:59 PM
To: Craven, Paul EAO:EX
Cc: McLean, Alex D EAO:EX; Parks, Chris EAO:EX
Subject: Q re: error on Amendment Certificate

Alex noted an error on the Galore amendment Cert. the transfer of the certificate (Amendment 2) is dated January 2007 but the EAC wasn't issued until Feb 2007 . I'm guessing it was intended to be Jan 2008 for amendment 2.

Does this require any action? Would you like to ask JAG?

Pizarro, Kirsten EAO:EX

From: Cousins, Autumn EAO:EX
Sent: Wednesday, June 29, 2016 10:53 PM
To: Craven, Paul EAO:EX
Subject: s.15
Attachments: IMG_0551.jpg; IMG_0552.jpg; IMG_0557.jpg; IMG_0573.jpg

FYI below and some pics attached

> On Jun 29, 2016, at 8:01 PM, McLean, Alex D EAO:EX <Alex.D.McLean@gov.bc.ca> wrote:
>
> Hi folks,
>
> s.15

>
> Have a good night!
>
> Sent from my iPhone

Page 0245 to/à Page 0248

Withheld pursuant to/removed as

s.15

Pizarro, Kirsten EAO:EX

From: Cousins, Autumn EAO:EX
Sent: Wednesday, June 29, 2016 10:46 PM
To: Craven, Paul EAO:EX
Subject: RE: Upcoming Matters

I will confirm this with Chris tomorrow (he was off today) but here are the items that may require your or other exec member's attention over July:

- s.13,s.15

- s.13,s.15

s.16

s.12,s.13

- Response to OAG on mining

s.16

- EAC Policy work with stakeholders (if and as requested by Paul/Brenda/Erin)

From: "Craven, Paul EAO:EX" <Paul.Craven@gov.bc.ca>
Date: June 29, 2016 at 12:20:25 PM PDT
To: "Carter, Rumon EAO:EX" <Rumon.Carter@gov.bc.ca>, "Scraba, Erin H EAO:EX" <Erin.Scraba@gov.bc.ca>, "Cousins, Autumn EAO:EX" <Autumn.Cousins@gov.bc.ca>, "Vinette, Nicole EAO:EX" <Nicole.Vinette@gov.bc.ca>
Subject: Upcoming Matters

I have a P3 discussion on Monday which I expect Kevin, Michelle and I will be covering what might be happening over the next few weeks while everyone is alternating vacation. Can you please think about items that may come up over July while I am away so we can do a rough list today. Planned inspections etc.

Thanks.

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748

Pizarro, Kirsten EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 9:53 PM
To: Craven, Paul EAO:EX
Cc: Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX; Christie, Karen L EAO:EX
Subject: Re: prep for MABC/NRB meeting

Thanks Paul.

Sent from my BlackBerry 10 smartphone on the TELUS network. Please excuse typos.

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 6:46 PM
To: Loiacono, Sabrina EAO:EX
Cc: Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX; Christie, Karen L EAO:EX
Subject: Re: prep for MABC/NRB meeting

Thanks Sabrina.

I think Bullets 4 and 5 can be covered by Bullet 1. The response to the AG report will be picked up by MEM so it need not be on our list. That gets you down to 3.

Sent from my iPhone

On Jun 29, 2016, at 5:05 PM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

> Here is the list I have compiled from the emails chain:
> - EA process Reform FNEMC/Other Reform
> - EPIC
> - Progress of Mining Projects in EA
> - Future initiatives
> - Highlight our work with the mining sector and the relationship between EA and permitting
> - Response to the AG report on mining C&E.
>
> Did we want to add anything around projects in suspension/extension? The list seems long is there anything we should take out?
> Kind regards,
> S.
>
> **From:** Waters, Cory EAO:EX
> **Sent:** Wednesday, June 29, 2016 1:24 PM
> **To:** Craven, Paul EAO:EX
> **Cc:** Loiacono, Sabrina EAO:EX; Fenton, Chrystal EAO:EX; Christie, Karen L EAO:EX
> **Subject:** Re: prep for MABC/NRB meeting
> I think it is worth foreshadowing the need to talk to MABC in the coming weeks about our work with FNEMC. I don't think we get into detail with NRB, but want to be sure to get on their radar.
>
> Sent from my iPhone
>
> On Jun 29, 2016, at 12:04 PM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:

So all we n Ed for today is telling FLNRO what we are going to talk about. So it really is EPIC, Progress of Mining Projects in EA and the last slide of the deck which talks about future initiatives. The thing to highlight is continuing our work with the mining sector and the relationship between ea and permitting. I can also contribute to the discussion on the response to the AG report on mining C &E.
Paul

Sent from my iPhone

On Jun 29, 2016, at 11:21 AM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

> Just looping Paul in as well.
> Sent from my BlackBerry 10 smartphone on the TELUS network.
> Please excuse typos.
>
> **From:** Fenton, Chrystal EAO:EX
> **Sent:** Wednesday, June 29, 2016 11:19 AM
> **To:** Loiacono, Sabrina EAO:EX; Christie, Karen L EAO:EX; Waters, Cory EAO:EX
> **Subject:** RE: prep for MABC/NRB meeting
>
> Thanks Sabrina.
> Cory, Michelle plans to use the deck prepared for NRS ADMs on epic and Karen is working on adding a couple mining specific slides. I've copied Karen for input here as I know you aren't able to be on email often today.
>
> **From:** Loiacono, Sabrina EAO:EX
> **Sent:** Wednesday, June 29, 2016 11:01 AM
> **To:** Fenton, Chrystal EAO:EX
> **Subject:** FW: prep for MABC/NRB meeting
> Sorry I should have cc'ed you.
> Kind regards,
> S.
>
> **From:** Loiacono, Sabrina EAO:EX
> **Sent:** Wednesday, June 29, 2016 8:42 AM
> **To:** Craven, Paul EAO:EX; Waters, Cory EAO:EX
> **Subject:** FW: prep for MABC/NRB meeting
> FLNR are prepping for the MABC/NRB meeting on July 6th and they would like our top priorities for the mining industry by noon tomorrow. Can I get something by the end of the day so I can send it to Kevin for his input/approval. Please note they are looking for high level information. For more context please see the email chain below.
> Kind regards,
> S.
>
> **From:** Jardine, Kevin EAO:EX
> **Sent:** Tuesday, June 28, 2016 6:43 PM
> **To:** Loiacono, Sabrina EAO:EX
> **Subject:** Re: prep for MABC/NRB meeting
> Yes, please, Sabrina. Based on our meeting with MABC they indicated an interest inwant discussing EPIC, but perhaps Paul will be able to confirm.

Rgds,
K.
250-361-6753
*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 6:40 PM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

> Hi Kevin,
> Please see the email below. In short FLNR are prepping for the MABC/NRB meeting and they would like our top priorities for the mining industry. Would you like me to Canvass Paul and Cory (who is acting)?
> Sent from my BlackBerry 10 smartphone on the TELUS network. Please excuse typos.
>
> ---
>
> **From:** Rousselle, Jillian FLNR:EX <Jillian.Rousselle@gov.bc.ca>
> **Sent:** Tuesday, June 28, 2016 4:52 PM
> **To:** French, Shawna ABR:EX; Barillaro, Scott W ENV:EX; De Champlain, Rhonda MEM:EX; Loiac
> Hodson, Georgina AGRI:EX
> **Subject:** prep for MABC/NRB meeting
>
> Hi,
> As you know, NRB and MABC are having their annual meeting next Thursday. In preparation for this, I have been asked to coordinate a list of NRS key priorities (for the mining industry) to be discussed. The idea is that each agency would bring forward their top priorities. There is only 30 mins allocated to this discussion, so it will need to be very high-level. Can you please send me back your items by noon Thursday?
> Thank you,
> **Jillian Rousselle**
> **Director, Executive Operations**
> **Deputy Minister's Office**
> **Ministry of Forests, Lands and Natural Resource Operations**
> **(250) 356-2700**

Pizarro, Kirsten EAO:EX

From: Braun, Nathan EAO:EX
Sent: Wednesday, June 29, 2016 9:34 PM
To: Vinette, Nicole EAO:EX; Shepard, Michael EAO:EX
Cc: Walton, Lindsay EAO:EX; Schell, Natalie EAO:EX; Craven, Paul EAO:EX
Subject: RE: Heads up: Metro Vancouver announcement re: GMT project and MV impact assessment report

We have provided some more detailed bullets to Kevin on this issue. The IN and project issues note both fine for a general overview of the project and status.

From: Vinette, Nicole EAO:EX
Sent: Wednesday, June 29, 2016 10:54 AM
To: Shepard, Michael EAO:EX; Braun, Nathan EAO:EX
Cc: Walton, Lindsay EAO:EX; Schell, Natalie EAO:EX; Craven, Paul EAO:EX
Subject: RE: Heads up: Metro Vancouver announcement re: GMT project and MV impact assessment report

Thanks for this info and the heads-up, Mike. I'll be sure to move the revised IN up the approvals chain quickly in case we get any media interest on this one. Thanks...

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

From: Shepard, Michael EAO:EX
Sent: Wednesday, June 29, 2016 10:24 AM
To: Braun, Nathan EAO:EX; Vinette, Nicole EAO:EX
Cc: Walton, Lindsay EAO:EX; Schell, Natalie EAO:EX
Subject: Heads up: Metro Vancouver announcement re: GMT project and MV impact assessment report

Nathan and Nicole,

Earlier today, Metro Vancouver announced details of its impact assessment report, in which they indicate they will not be able to support the proposed project. It identifies key areas of concern, similar to what we have heard during pre-Application, which include:

- Insufficient consideration of alternatives to a 10-lane bridge

- Lack of integration into the regional growth strategy and transportation network
- Ecological disruption to the Fraser River estuary, an important habitat for salmon and birds
- Impacts on Metro Vancouver infrastructure, including water mains and sewer lines
- Recreational and ecological disruption on Deas Island Regional Park
- Downloading of major expenditures onto local governments for road improvements
- Negative effects on transit ridership and affordability
- Insufficient consideration to climate change and air quality
- Lack of transparency and consultation with respect to design and business case

The report appears to summarize details and effects described in the Application, despite the fact that the version of the Application reviewed by Metro Vancouver was the screening copy, which has now changed over the 30 day screening period. The report also re-iterates MV's desire for a federal review of the project.

Metro Vancouver will be sending a letter addressed to the Premier, Ministers of Transportation and Environment (including Federal Minister) and EAO that communicates their analysis, position and concerns. The report has also just been made public:

http://www.metrovancouver.org/boards/GVRD/RD_2016-Jun-24_RCL.pdf#search="IMPACT%20ASSESSMENT%20OF%20GEORGE%20MASSEY%20TUNNEL%20REPLACEMENT%20PROJECT"

For Nicole's information, tomorrow is day 30 in the application review period. The Proponent will be requesting additional time today and an extension to the screening period, to allow them a few more weeks to address comments and deficiencies of the application. We updated the issues summary note yesterday, but will add more today to reflect the news above.

Let us know if you have any questions.

Mike

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 6:46 PM
To: Loiacono, Sabrina EAO:EX
Cc: Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX; Christie, Karen L EAO:EX
Subject: Re: prep for MABC/NRB meeting

Thanks Sabrina.

I think Bullets 4 and 5 can be covered by Bullet 1. The response to the AG report will be picked up by MEM so it need not be on our list. That gets you down to 3.

Sent from my iPhone

On Jun 29, 2016, at 5:05 PM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

> Here is the list I have compiled from the emails chain:
> - EA process Reform FNEMC/Other Reform
> - EPIC
> - Progress of Mining Projects in EA
> - Future initiatives
> - Highlight our work with the mining sector and the relationship between EA and permitting
> - Response to the AG report on mining C&E.
>
> Did we want to add anything around projects in suspension/extension? The list seems long is there anything we should take out?
> Kind regards,
> S.
>
> **From:** Waters, Cory EAO:EX
> **Sent:** Wednesday, June 29, 2016 1:24 PM
> **To:** Craven, Paul EAO:EX
> **Cc:** Loiacono, Sabrina EAO:EX; Fenton, Chrystal EAO:EX; Christie, Karen L EAO:EX
> **Subject:** Re: prep for MABC/NRB meeting
> I think it is worth foreshadowing the need to talk to MABC in the coming weeks about our work with FNEMC. I don't think we get into detail with NRB, but want to be sure to get on their radar.
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> > Paul
> >
> > Sent from my iPhone

On Jun 29, 2016, at 11:21 AM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

Just looping Paul in as well.
Sent from my BlackBerry 10 smartphone on the TELUS network.
Please excuse typos.

From: Fenton, Chrystal EAO:EX
Sent: Wednesday, June 29, 2016 11:19 AM
To: Loiacono, Sabrina EAO:EX; Christie, Karen L EAO:EX; Waters, Cory EAO:EX
Subject: RE: prep for MABC/NRB meeting

Thanks Sabrina.
Cory, Michelle plans to use the deck prepared for NRS ADMs on epic and Karen is working on adding a couple mining specific slides. I've copied Karen for input here as I know you aren't able to be on email often today.

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 11:01 AM
To: Fenton, Chrystal EAO:EX
Subject: FW: prep for MABC/NRB meeting
Sorry I should have cc'ed you.
Kind regards,
S.

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 8:42 AM
To: Craven, Paul EAO:EX; Waters, Cory EAO:EX
Subject: FW: prep for MABC/NRB meeting
FLNR are prepping for the MABC/NRB meeting on July 6th and they would like our top priorities for the mining industry by noon tomorrow. Can I get something by the end of the day so I can send it to Kevin for his input/approval. Please note they are looking for high level information. For more context please see the email chain below.
Kind regards,
S.

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 6:43 PM
To: Loiacono, Sabrina EAO:EX
Subject: Re: prep for MABC/NRB meeting
Yes, please, Sabrina. Based on our meeting with MABC they indicated an interest inwant discussing EPIC, but perhaps Paul will be able to confirm.

Rgds,
K.
250-361-6753
*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 6:40 PM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

Hi Kevin,
Please see the email below. In short FLNR are prepping for the MABC/NRB meeting and they would like our top priorities for the mining industry. Would you like me to Canvass Paul and Cory (who is acting)?
Sent from my BlackBerry 10 smartphone on the TELUS network. Please excuse typos.

From: Rousselle, Jillian FLNR:EX <Jillian.Rousselle@gov.bc.ca>
Sent: Tuesday, June 28, 2016 4:52 PM
To: French, Shawna ABR:EX; Barillaro, Scott W ENV:EX; De Champlain, Rhonda MEM:EX; Loiac
Hodson, Georgina AGRI:EX
Subject: prep for MABC/NRB meeting

Hi,
As you know, NRB and MABC are having their annual meeting next Thursday. In preparation for this, I have been asked to coordinate a list of NRS key priorities (for the mining industry) to be discussed. The idea is that each agency would bring forward their top priorities. There is only 30 mins allocated to this discussion, so it will need to be very high-level. Can you please send me back your items by noon Thursday?
Thank you,
Jillian Rousselle
Director, Executive Operations
Deputy Minister's Office
Ministry of Forests, Lands and Natural Resource Operations
(250) 356-2700

Pizarro, Kirsten EAO:EX

From: Perry, Monica EAO:EX
Sent: Wednesday, June 29, 2016 5:56 PM
To: Scraba, Erin H EAO:EX; Craven, Paul EAO:EX
Subject: Section 6 Public Guidance

Erin and Paul, do we have updated guidance for Section 6 Requests? I seem to recall seeing something but could not find it on EPIC or on E-Guide (which still has the old guidance). I am responding to a member of the public (who would like to see the City of Comox's bank improvement project designated). It is well below threshold and has created quite a stir in the community as the City went forward without a permit. They are in the process of getting a permit now.

I have had a request from a member of the public to consider designating it as reviewable. I have told her I cant, etc. but thought it would be good to point her to some guidance.

Let me know if I am imagining the updated document.

Monica Perry
Executive Project Director, Power and Community Infrastructure
Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208

EAO Environmental Assessment Office

Pizarro, Kirsten EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 5:05 PM
To: Waters, Cory EAO:EX; Craven, Paul EAO:EX
Cc: Fenton, Chrystal EAO:EX; Christie, Karen L EAO:EX
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K.
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> **Subject:** prep for MABC/NRB meeting
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Thank you,

Jillian Rousselle
Director, Executive Operations
Deputy Minister's Office
Ministry of Forests, Lands and Natural Resource Operations
(250) 356-2700

Pizarro, Kirsten EAO:EX

From: Scraba, Erin H EAO:EX
Sent: Wednesday, June 29, 2016 4:04 PM
To: Craven, Paul EAO:EX
Subject: FW: EAC POLICY READY FOR RELEASE

From: Black, Brenda EAO:EX
Sent: Wednesday, June 29, 2016 3:56 PM
To: Scraba, Erin H EAO:EX; Cousins, Autumn EAO:EX; Vinette, Nicole EAO:EX
Cc: Pizarro, Kirsten EAO:EX; Rennert-May, Leya EAO:EX
Subject: EAC POLICY READY FOR RELEASE

Erin,

Thanks to some quick work from Kirsten and Leya (thank you very much, ladies), the policy and all the supporting documents are ready for you to send out tomorrow morning. They are all available in this folder: I:\EAO\EAO_SHARED\Compliance\Operational (ORCS)\Environmental Assessment - Policy Development 30010\20 EA policy development case files\EAC policy\June 2016 documents for release

Brenda Black, A.Ag.
Compliance Officer

BC Environmental Assessment Office
Suite 325-1011 4th Avenue
Prince George, BC V2L 3H9
Phone: 250.960-0203
Fax: 250.565.6629

EAO Environmental Assessment Office

http://www.eao.gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 3:31 PM
To: Craven, Paul EAO:EX
Subject: Valmount Glacier Resort

Per out discussion: http://valemountglaciers.com/project-team/

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Pizarro, Kirsten EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Wednesday, June 29, 2016 3:31 PM
To: Braun, Nathan EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; Fenton, Chrystal EAO:EX
Subject: Request: Proposed George Massey Tunnel Project - Revised IN for Review
Attachments: IN_EAO_George_Massey_Tunnel_Replacement_Project_16March2016.docx

Hi Nathan,

Please see below for a link to Mike's revised version of the IN for GMT (a copy is also attached to your e-mail in case that's easier for you to access).

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_George_Massey_Tunnel_Replacement_Project_16March2016.docx

If you see anything that you think should be changed before it goes up the chain for review/approval, please let me know. Thanks...

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO Environmental Assessment Office

GEORGE MASSEY TUNNEL REPLACEMENT PROJECT

- The Ministry of Transportation and Infrastructure (MOTI) proposes to replace the existing George Massey Tunnel with a new bridge, and undertake related highway improvements in Richmond and Delta.

- The project entered the provincial EA process on December 16, 2015 and is currently in the pre-application phase of the EA.

- The Canadian Environmental Assessment Agency (CEAA) has confirmed the project does not require a federal EA

- A public comment period was held from January 15 – February 16, 2016 on the Project Description and Key Areas of Study document, which includes the valued components proposed for assessment.

- EAO considered comments received from the public and working group members , in issuing the Application Information Requirements on May 24, 2016 .

- During the environmental assessment, EAO will be seeking technical advice from provincial and federal government agencies, Aboriginal groups and local governments, as part of EAO's working group.

- A second public comment period will be held on MOTI's Application, after EAO has accepted it for review. This Application will contain the complete assessment study results.

- MOTI submitted its Application for an EA in late May 2016 and EAO is reviewing the Application for completeness.

Background:

- MOTI is proposing to replace the George Massey Tunnel across the South Arm of the Fraser River with a new bridge, replace the Westminster Highway, Steveston Highway and Highway 17A interchanges and widen Highway 99 to accommodate dedicated transit/HOV lanes between Bridgeport Road in Richmond and Highway 91 in Delta.
- In response to growing concerns about the impact of congestion, and recognizing the age and condition of the existing George Massey Tunnel, the Province announced in September 2012 that planning for a replacement would begin.
- A public comment period was held from January 15 – February 16, 2016 on the Project Description and Key Areas of Study document. EAO reviewed public comments and MOTI's responses in determining whether to issue the final AIR.
- EAO issued the AIR on May 24, 2016.
- Key issues associated with the proposed Project to date include:
    - Cumulative effects (close proximity to Vancouver Airport Fuel Delivery, Roberts Bank Terminal 2, WesPac Tilbury Marine Jetty, FortisBC Tilbury LNG Facility Expansion Project [no EA required], Port Metro Vancouver Habitat Enhancement Projects);
    - Accidents and malfunctions and resulting effects to the Fraser River estuary;
    - Public concern that the rationale relates to shipping of LNG and coal on the Fraser River the and industrialization of the Fraser River more generally
    - Socio-economic effects related to traffic (bottleneck being pushed to the Oak Street bridge), and tolling of a new bridge);
    - Concerns about the project rationale and perceptions that the project does not support more sustainable traffic alternatives that would help reduce greenhouse gases, and about the cost of the project in light of less expensive alternatives;
    - Adverse effects to water quality, aquatic species and habitat (particularly salmon and eulachon), wildlife including birds, and Aboriginal fishing rights;
    - Concerns about variations in EA procedural approaches.
- The following Aboriginal Groups have been invited to be members of EAO's Working Group: Cowichan Tribes; Halalt; Katzie; Kwantlen; Lake Cowichan; Lyackson; Musqueam; Penelakut Tribe (including Hwlitsum); Semiahmoo; Squamish; Stz'uminus; Tsawwassen; and Tsleil-Waututh.
- EAO will also notify the People of the River Referrals Office about key EA milestones.
- The Corporation of Delta, City of Richmond and Metro Vancouver are members of EAO's Working Group. MOTI has met regularly with local government staff and elected officials to understand and respond to concerns raised by local government.
- On June 29, 2016, Metro Vancouver publically released an impact assessment report that outlined key concerns with the proposed Project, including: impacts to Metro Vancouver infrastructure, disruption to Deas Island Regional Park, impacts to transit ridership, insufficient consideration of alternatives, and climate change. EAO will be continuing to work with Metro Vancouver during the EA to understand and address these concerns.
- EAO notified the State of Washington's Department of Ecology as per the Memorandum of Understanding with the department.

- CEAA has confirmed the Project does not require a federal EA.

Communications Contact:	Sabrina Loiacono	250-356-7475
Program Area Contact:	Michael Shepard	250-387-0233

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 3:14 PM
To: Edquist, Kevin FLNR:EX
Cc: Paulson, Ken OGC:IN
Subject: Re: Slides

Works for me.

Sent from my iPhone

On Jun 29, 2016, at 2:09 PM, Edquist, Kevin FLNR:EX <Kevin.Edquist@gov.bc.ca> wrote:

> I'm in.
>
> **From:** Paulson, Ken [mailto:Ken.Paulson@bcogc.ca]
> **Sent:** Wednesday, June 29, 2016 2:06 PM
> **To:** Craven, Paul EAO:EX; Edquist, Kevin FLNR:EX
> **Subject:** Slides
> Once Kevin J and Paul J are done, Why don't I start since I am in the room.
> I will introduce my colleagues. Then do slides 2 and 3.
> Kevin - slide 4 and 6. Maybe with a FLNRO flavour.
> Paul, you could cover slides 8 and 9.
> I can do 10.
> Sent from my BlackBerry 10 smartphone on the TELUS network.

Pizarro, Kirsten EAO:EX

From: Wheler, Francesca M ABR:EX
Sent: Wednesday, June 29, 2016 2:54 PM
To: Craven, Paul EAO:EX
Subject: Tentative: Federal Regulatory Review Process (EA and NEB)

Pizarro, Kirsten EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 2:35 PM
To: EAO Executive
Cc: Fenton, Chrystal EAO:EX
Subject: FW: DMC Presentation
Attachments: DM Update and Ministerial Training Slides - Final.pptx

FYI...for discussion at our next Executive meeting.

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:34 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: DMC Presentation

Good afternoon

Attached please find a presentation that had been circulated to DMC by Cheryl Wenezenki-Yolland. For your information only.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Page 0272 to/à Page 0296

Withheld pursuant to/removed as

DUPLICATE

Pizarro, Kirsten EAO:EX

From: Finkel, Paul PREM:EX
Sent: Wednesday, June 29, 2016 2:17 PM
To: Craven, Paul EAO:EX; Edquist, Kevin FLNR:EX; Jeakins, Paul OGC:IN; Paulson, Ken OGC:IN
Cc: Rousselle, Jillian FLNR:EX; De Champlain, Rhonda MEM:EX; Jardine, Kevin EAO:EX; Loiacono, Sabrina EAO:EX
Subject: s.12

s.12,s.13

Chambers or PVO by 9:50 a.m. tomorrow. . You are asked to be outside

Thank you

Paul Finkel | Cabinet Operations
Room 049| 617 Government St. | Victoria, BC | V8W 9V1
250.387.0728

Pizarro, Kirsten EAO:EX

From: ENV Eapprovals ENV:EX
Sent: Wednesday, June 29, 2016 2:15 PM
To: ENV Eapprovals ENV:EX
Subject: eApprovals Tip - Summer Holiday Coverage



eApprovals
document approval system

DID YOU KNOW?

TAKING TIME OFF THIS SUMMER?

Before putting on your out-of-office and forwarding your phones, be sure to update your eApprovals settings so the person(s) covering for you can action your eApprovals items while you are away.

Here's how:

- Visit the ***Settings*** tab in eApprovals and click on the edit icon by your name.
- Find your delegate(s) by clicking the directory icon, typing the first or last name in the ***Find*** field, and hitting ***Enter***.
- Hit ***Add*** as you select each delegate then ***OK*** when your selection is complete.
- Click ***Save Edits Now*** to save your changes.

You can add as many default watchers as you like, but please ensure you communicate with them that they will be providing coverage for you in the system and should review and approve items on your behalf in your absence.

Remember that each person listed in the "Default Watchers" field will receive an email notification when an item is sent to you.

When you return from holidays, you can edit your accont to remove or change the watchers as needed.

If you have any questions, contact env.eapprovalsupport@gov.bc.ca.

Pizarro, Kirsten EAO:EX

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Sent: Wednesday, June 29, 2016 2:09 PM
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Pizarro, Kirsten EAO:EX

From: Cousins, Autumn EAO:EX
Sent: Wednesday, June 29, 2016 1:33 PM
To: Craven, Paul EAO:EX
Subject: Please send me s.12

My copy is corrupted and I need to send to Edquist

Sent from my iPhone

Pizarro, Kirsten EAO:EX

From: Carter, Rumon EAO:EX
Sent: Wednesday, June 29, 2016 1:30 PM
To: Craven, Paul EAO:EX
Cc: Scraba, Erin H EAO:EX; Cousins, Autumn EAO:EX; Vinette, Nicole EAO:EX
Subject: RE: Upcoming Matters

Digital Services:

- Meeting with CSNR CIO re: EAO-IMB integration – i.e. working with Denise to hash out what the integration / responsibility & resource sharing / etc. looks like
- Meeting with OCIO DevOps team + CSNR IMB re: EPIC platform roll-out etc.
- Working with CSNR re: maintenance & improvement contract vehicle – approach and content still TBD
- Commencing discussions with Cory + FN Forum re: integrating their work into EPIC
- Commencing work – in partnership with Erin – on content plan etc. re: public web + e-Guide

Engagement

- Commencing discussions with relevant parties (Cory, Erin, etc.) re: integrating and adding rigour to our engagement work

Rumon Carter
Mobile: (250) 508-4307

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 12:20 PM
To: Carter, Rumon EAO:EX; Scraba, Erin H EAO:EX; Cousins, Autumn EAO:EX; Vinette, Nicole EAO:EX
Subject: Upcoming Matters

I have a P3 discussion on Monday which I expect Kevin, Michelle and I will be covering what might be happening over the next few weeks while everyone is alternating vacation. Can you please think about items that may come up over July while I am away so we can do a rough list today. Planned inspections etc.

Thanks.

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748

EAO | Environmental Assessment Office

Pizarro, Kirsten EAO:EX

From: Cousins, Autumn EAO:EX
Sent: Wednesday, June 29, 2016 1:26 PM
To: Walters, Kimberly A EAO:EX
Cc: Craven, Paul EAO:EX; Milne, Andrew EAO:EX; Carlson, Justin EAO:EX; Parks, Chris EAO:EX
Subject: Re: Q re: s.15

s.15

Sent from my iPhone

On Jun 29, 2016, at 12:50 PM, Walters, Kimberly A EAO:EX <Kimberly.Walters@gov.bc.ca> wrote:

> Hi Autumn,
> I spoke with the Holder and they can handle a delay to the week of Aug 15th for the inspection. Let me know if you'd like to discuss further.
> Thanks!
> Kim
> **Kim Walters**
> Office: 250-387-2445
> Mobile: 250-882-4615
>
> **From:** Cousins, Autumn EAO:EX
> **Sent:** Monday, June 27, 2016 2:30 PM
> **To:** Walters, Kimberly A EAO:EX
> **Subject:** Re: Q re: s.15
> s.15

Sent from my iPhone

On Jun 24, 2016, at 9:28 AM, Walters, Kimberly A EAO:EX <Kimberly.Walters@gov.bc.ca> wrote:

> Hi Autumn,
> s.15
>
> Thanks
> Kim
> **Kim Walters**

Office: 250-387-2445
Mobile: 250-882-4615

From: Cousins, Autumn EAO:EX
Sent: Thursday, June 23, 2016 2:45 PM
To: Walters, Kimberly A EAO:EX
Subject: Q re: s.15

Hi Kim
s.15

Pizarro, Kirsten EAO:EX

From: Waters, Cory EAO:EX
Sent: Wednesday, June 29, 2016 1:24 PM
To: Craven, Paul EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Fenton, Chrystal EAO:EX; Christie, Karen L EAO:EX
Subject: Re: prep for MABC/NRB meeting

I think it is worth foreshadowing the need to talk to MABC in the coming weeks about our work with FNEMC. I don't think we get into detail with NRB, but want to be sure to get on their radar.

Sent from my iPhone

On Jun 29, 2016, at 12:04 PM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:

> So all we n Ed for today is telling FLNRO what we are going to talk about. So it really is EPIC, Progress of Mining Projects in EA and the last slide of the deck which talks about future initiatives. The thing to highlight is continuing our work with the mining sector and the relationship between ea and permitting. I can also contribute to the discussion on the response to the AG report on mining C &E.
>
> Paul
>
> Sent from my iPhone
>
> On Jun 29, 2016, at 11:21 AM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:
>
> > Just looping Paul in as well.
> >
> > Sent from my BlackBerry 10 smartphone on the TELUS network. Please excuse typos.
> >
> > **From:** Fenton, Chrystal EAO:EX
> > **Sent:** Wednesday, June 29, 2016 11:19 AM
> > **To:** Loiacono, Sabrina EAO:EX; Christie, Karen L EAO:EX; Waters, Cory EAO:EX
> > **Subject:** RE: prep for MABC/NRB meeting
> >
> > Thanks Sabrina.
> > Cory, Michelle plans to use the deck prepared for NRS ADMs on epic and Karen is working on adding a couple mining specific slides. I've copied Karen for input here as I know you aren't able to be on email often today.
> >
> > **From:** Loiacono, Sabrina EAO:EX
> > **Sent:** Wednesday, June 29, 2016 11:01 AM
> > **To:** Fenton, Chrystal EAO:EX
> > **Subject:** FW: prep for MABC/NRB meeting
> > Sorry I should have cc'ed you.
> > Kind regards,
> > S.
> >
> > **From:** Loiacono, Sabrina EAO:EX
> > **Sent:** Wednesday, June 29, 2016 8:42 AM

To: Craven, Paul EAO:EX; Waters, Cory EAO:EX
Subject: FW: prep for MABC/NRB meeting
FLNR are prepping for the MABC/NRB meeting on July 6th and they would like our top priorities for the mining industry by noon tomorrow. Can I get something by the end of the day so I can send it to Kevin for his input/approval. Please note they are looking for high level information. For more context please see the email chain below.
Kind regards,
S.

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 6:43 PM
To: Loiacono, Sabrina EAO:EX
Subject: Re: prep for MABC/NRB meeting
Yes, please, Sabrina. Based on our meeting with MABC they indicated an interest inwant discussing EPIC, but perhaps Paul will be able to confirm.

Rgds,
K.
250-361-6753
*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 6:40 PM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

> Hi Kevin,
> Please see the email below. In short FLNR are prepping for the MABC/NRB meeting and they would like our top priorities for the mining industry. Would you like me to Canvass Paul and Cory (who is acting)?
> Sent from my BlackBerry 10 smartphone on the TELUS network.
> Please excuse typos.
>
> ---
>
> **From:** Rousselle, Jillian FLNR:EX <Jillian.Rousselle@gov.bc.ca>
> **Sent:** Tuesday, June 28, 2016 4:52 PM
> **To:** French, Shawna ABR:EX; Barillaro, Scott W ENV:EX; De Champlain, Rhonda MEM:EX; Loiacono, Sab Hodson, Georgina AGRI:EX
> **Subject:** prep for MABC/NRB meeting
> Hi,
> As you know, NRB and MABC are having their annual meeting next Thursday. In preparation for this, I have been asked to coordinate a list of NRS key priorities (for the mining industry) to be discussed. The idea is that each agency would bring forward their top priorities. There is only 30 mins allocated to this discussion, so it will need to be very high-level. Can you please send me back your items by noon Thursday?
> Thank you,
> **Jillian Rousselle**
> **Director, Executive Operations**
> **Deputy Minister's Office**
> **Ministry of Forests, Lands and Natural Resource Operations**
> **(250) 356-2700**

Pizarro, Kirsten EAO:EX

From: Black, Brenda EAO:EX
Sent: Wednesday, June 29, 2016 1:16 PM
To: Craven, Paul EAO:EX
Cc: Scraba, Erin H EAO:EX; Vinette, Nicole EAO:EX; Cousins, Autumn EAO:EX
Subject: RE: DONE: EAC Policy items for release

s.14

Brenda

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 12:05 PM
To: Black, Brenda EAO:EX
Cc: Cousins, Autumn EAO:EX; Scraba, Erin H EAO:EX; Vinette, Nicole EAO:EX
Subject: Re: DONE: EAC Policy items for release

Ok I will take a final look. What changes did we make as a result of the JAG discussion?

Paul

Sent from my iPhone

On Jun 29, 2016, at 12:02 PM, Black, Brenda EAO:EX <Brenda.Black@gov.bc.ca> wrote:

> The updates are complete and the documents are ready for release:
> I:\EAO\EAO_SHARED\Compliance\Operational (ORCS)\Environmental Assessment - Policy Development 30010\20 EA policy development case files\EAC policy\June 2016 documents for release
>
> Brenda
>
> ---
>
> **From:** Cousins, Autumn EAO:EX
> **Sent:** Tuesday, June 28, 2016 4:37 PM
> **To:** Black, Brenda EAO:EX; Scraba, Erin H EAO:EX; Craven, Paul EAO:EX
> **Cc:** Vinette, Nicole EAO:EX
> **Subject:** RE: DONE: EAC Policy items for release
>
> s.14
>
> ---
>
> **From:** Black, Brenda EAO:EX
> **Sent:** Tuesday, June 28, 2016 2:14 PM
> **To:** Scraba, Erin H EAO:EX; Cousins, Autumn EAO:EX; Craven, Paul EAO:EX
> **Cc:** Vinette, Nicole EAO:EX
> **Subject:** DONE: EAC Policy items for release

Autumn, Erin and Paul,

The complete EAC Policy, Abridged EAC Policy, What's New document and the EAC template are available in this folder for release: I:\EAO\EAO_SHARED\Compliance\Operational (ORCS)\Environmental Assessment - Policy Development 30010\20 EA policy development case files\EAC policy\June 2016 documents for release. All of the documents are available as PDF and word documents.

Erin,

I believe you are planning on sending the documents to industry and stakeholder groups on Thursday. Right now, as discussed, all the hyperlinks in the documents direct folks to the EAO's Guidance Documents webpage so we have the ability to post the documents now or after we receive any feedback that we may wish to incorporate.

Nicole spent some time improving the decision flow chart and ensuring that it was consistent with EAO branding (it looks amazing!). It now fits on one page and is legible when printed. If we receive any comments or concerns about the size of the decision flow chart in the policy I suggest we create a stand alone 11x17 copy of it and post that to the guidance documents website. We can then link to the larger image in the policies. I have not had any discussions with Nicole about when this content will be posted to the website, but I am assuming that we will be waiting to post the material until after we receive any feedback from industry and stakeholder groups. If this is incorrect and there is a desire to have this material posted when the material is sent out to industry and stakeholder groups on Thursday, please let Nicole know as soon as possible.

Thanks,

Brenda Black, A.Ag.

Compliance Officer

BC Environmental Assessment Office
Suite 325-1011 4th Avenue
Prince George, BC V2L 3H9
Phone: 250.960-0203
Fax: 250.565.6629

http://www.eao.gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 12:06 PM
To: Vinette, Nicole EAO:EX
Subject: s.22

Good! And thanks.

Sent from my iPhone

On Jun 29, 2016, at 11:49 AM, Vinette, Nicole EAO:EX <Nicole.Vinette@gov.bc.ca> wrote:

s.22

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 12:05 PM
To: Black, Brenda EAO:EX
Cc: Cousins, Autumn EAO:EX; Scraba, Erin H EAO:EX; Vinette, Nicole EAO:EX
Subject: Re: DONE: EAC Policy items for release

Ok I will take a final look. What changes did we make as a result of the JAG discussion?

Paul

Sent from my iPhone

On Jun 29, 2016, at 12:02 PM, Black, Brenda EAO:EX <Brenda.Black@gov.bc.ca> wrote:

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> **To:** Black, Brenda EAO:EX; Scraba, Erin H EAO:EX; Craven, Paul EAO:EX
> **Cc:** Vinette, Nicole EAO:EX
> **Subject:** RE: DONE: EAC Policy items for release
> s.14
>
> Chris J will do it tomorrow.
>
> **From:** Black, Brenda EAO:EX
> **Sent:** Tuesday, June 28, 2016 2:14 PM
> **To:** Scraba, Erin H EAO:EX; Cousins, Autumn EAO:EX; Craven, Paul EAO:EX
> **Cc:** Vinette, Nicole EAO:EX
> **Subject:** DONE: EAC Policy items for release
> Autumn, Erin and Paul,
> The complete EAC Policy, Abridged EAC Policy, What's New document and the EAC template are available in this folder for release: I:\EAO\EAO_SHARED\Compliance\Operational (ORCS)\Environmental Assessment - Policy Development 30010\20 EA policy development case files\EAC policy\June 2016 documents for release. All of the documents are available as PDF and word documents.
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Thanks,
Brenda Black, A.Ag.
Compliance Officer

BC Environmental Assessment Office
Suite 325-1011 4th Avenue
Prince George, BC V2L 3H9
Phone: 250.960-0203
Fax: 250.565.6629
http://www.eao.gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 12:04 PM
To: Loiacono, Sabrina EAO:EX
Cc: Fenton, Chrystal EAO:EX; Christie, Karen L EAO:EX; Waters, Cory EAO:EX
Subject: Re: prep for MABC/NRB meeting

So all we n Ed for today is telling FLNRO what we are going to talk about. So it really is EPIC, Progress of Mining Projects in EA and the last slide of the deck which talks about future initiatives. The thing to highlight is continuing our work with the mining sector and the relationship between ea and permitting. I can also contribute to the discussion on the response to the AG report on mining C &E.

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Sent from my iPhone

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> **To:** Loiacono, Sabrina EAO:EX; Christie, Karen L EAO:EX; Waters, Cory EAO:EX
> **Subject:** RE: prep for MABC/NRB meeting
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> Thanks Sabrina.
> Cory, Michelle plans to use the deck prepared for NRS ADMs on epic and Karen is working on adding a couple mining specific slides. I've copied Karen for input here as I know you aren't able to be on email often today.
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> **To:** Fenton, Chrystal EAO:EX
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> Sorry I should have cc'ed you.
> Kind regards,
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> **From:** Loiacono, Sabrina EAO:EX
> **Sent:** Wednesday, June 29, 2016 8:42 AM
> **To:** Craven, Paul EAO:EX; Waters, Cory EAO:EX
> **Subject:** FW: prep for MABC/NRB meeting
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> Kind regards,
> S.

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 6:43 PM
To: Loiacono, Sabrina EAO:EX
Subject: Re: prep for MABC/NRB meeting
Yes, please, Sabrina. Based on our meeting with MABC they indicated an interest inwant discussing EPIC, but perhaps Paul will be able to confirm.

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*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

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Pizarro, Kirsten EAO:EX

From: Waters, Cory EAO:EX
Sent: Wednesday, June 29, 2016 12:04 PM
To: Craven, Paul EAO:EX
Subject: Automatic reply: prep for MABC/NRB meeting

I am out of the office s.22 . . . . . . I will be checking emails intermittently during this time. For immediate assistance, please contact Ricardo Toledo at 250-387-0833. Thanks.

Cory

Pizarro, Kirsten EAO:EX

From: Black, Brenda EAO:EX
Sent: Wednesday, June 29, 2016 12:02 PM
To: Cousins, Autumn EAO:EX; Scraba, Erin H EAO:EX; Craven, Paul EAO:EX
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Phone: 250.960-0203
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Thank you,
Jillian Rousselle
Director, Executive Operations
Deputy Minister's Office
Ministry of Forests, Lands and Natural Resource Operations
(250) 356-2700

Pizarro, Kirsten EAO:EX

From: Shepard, Michael EAO:EX
Sent: Wednesday, June 29, 2016 11:15 AM
To: Craven, Paul EAO:EX
Subject: RE: FYI: Metro Vancouver report re: GMT project and desire for federal review

s.16

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 11:15 AM
To: Shepard, Michael EAO:EX
Subject: Re: FYI: Metro Vancouver report re: GMT project and desire for federal review
Thanks.
s.16

Sent from my iPhone

On Jun 29, 2016, at 10:15 AM, Shepard, Michael EAO:EX <Michael.Shepard@gov.bc.ca> wrote:

> Paul,
> I thought you would be interested to read an excerpt from a report released today by Metro Vancouver with regards to its concerns related to the George Massey Tunnel Project.
> http://www.metrovancouver.org/boards/GVRD/RD_2016-Jun-24_RCL.pdf#search="IMPACT%20ASSESSMENT%20OF%20GEORGE%20MASSEY%20TUNNEL%20REPLACEMENT%20PROJECT"
> There is a paragraph of particular relevance, that reiterates their desire for a federal review of the project, including the following rationale:
> Some key features that characterize the environmental review of a project through *CEAA 2012* include:
> - greater independence between project proponents and reviewers, to ensure that project impacts are assessed in an impartial and objective manner;
> - greater rigour of the analytical process;
> - longer timeframe (at least 365 days for an environmental assessment conducted by the Agency and at least 24 months for an environmental assessment by a review panel);
> - more substantial public / stakeholder input, including the opportunity to comment on the draft environmental assessment report;
> - incorporation of broader impacts into assessment, including direct, indirect and cumulative effects;
> - mitigation measures identified in the environmental assessment decision statement are incorporated into the design plans and implemented with the project;
> - review of projects by a review panel is conducted by members selected on the basis of their knowledge, experience and expertise, who must be free from bias or conflict of interest relative to the project;
> - a review panel has the ability to assess whether the environmental impact statement prepared by the proponent is sufficient to proceed to public hearings;
> Michael Shepard
> Project Assessment Manager
> Environmental Assessment Office
> Michael.Shepard@gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 11:15 AM
To: Shepard, Michael EAO:EX
Subject: Re: FYI: Metro Vancouver report re: GMT project and desire for federal review

Thanks.

s.16

Sent from my iPhone

On Jun 29, 2016, at 10:15 AM, Shepard, Michael EAO:EX <Michael.Shepard@gov.bc.ca> wrote:

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> Michael Shepard
> Project Assessment Manager
> Environmental Assessment Office
> Michael.Shepard@gov.bc.ca
> Office: 1-250-387-0233
> Cell: 1-250-213-9809

Pizarro, Kirsten EAO:EX

From: McNaughton, Steve EAO:EX
Sent: Wednesday, June 29, 2016 11:00 AM
To: Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
Subject: FYI: Prosperity Gold-Copper Project
Attachments: Response_13May2016 Taseko letter_23June2016_FINAL.pdf; 2016 06 10 JP Laplante to EAO re Prosperity Amendment Final.pdf

FYI. Forwarding to you as per instructions from Shelley.

From: McNaughton, Steve EAO:EX
Sent: Wednesday, June 29, 2016 10:58 AM
To: Csicsai, Peter MEM:EX; Wheler, Francesca M ABR:EX
Cc: Murphy, Shelley EAO:EX
Subject: FYI: Prosperity Gold-Copper Project

FYI. Forwarding to you as per instructions from Shelley Murphy.

Steve McNaughton
Project Assessment Officer
Environmental Assessment Office
Phone 250-387-5838

From: De Almeida, Steven EAO:EX
Sent: Wednesday, June 29, 2016 10:20 AM
To: 'RHallbauer@TasekoMines.com'
Cc: Bennett, Bill MEM:EX; Polak, Mary ENV:EX; Rustad, John ABR:EX; Barnett.MLA, Donna LASS:EX; Henderson, Kim N PREM:EX; McKnight, Elaine L MEM:EX; Caul, Doug D ABR:EX; Jardine, Kevin EAO:EX
Subject: Prosperity Gold-Copper Project

Dear Mr. Hallbauer,

Attached is a letter from Shelley Murphy, Executive Project Director.

Steven De Almeida | Administrative Assistant | Environmental Assessment Office | Telephone 250 387-2563

BRITISH COLUMBIA

File: 30200-25/PROS-19

Reference: 300971

June 29, 2016

SENT VIA EMAIL

Russell E. Hallbauer
President & CEO
Taseko Mines Limited
15th Floor, 1040 West Georgia Street
Vancouver BC V6E 4H1
RHallbauer@TasekoMines.com

Dear Mr. Hallbauer:

I have been asked to respond directly to the matters in your May 13, 2016, letter to the Honourable Christy Clark, Premier, relating to the Environmental Assessment Office (EAO). I understand that the Ministry of Justice has responded to the other matters you raise in that letter.

In your letter you raise concerns about the amount of time taken for EAO to review Taseko Mines Limited's (Taseko) application to amend its Environmental Assessment Certificate (Certificate) for the Prosperity Gold-Copper Project (Prosperity) and you express Taseko's desire that EAO complete its review of Taseko's application.

As you may be aware, after considerable consultation with Taseko and the Tsilhqot'in National Government (TNG), EAO established procedures for the review of the proposed amendment in November 2012. Under those procedures, EAO would rely principally on the information from the federal review panel process for EAO's review of the proposed amendment. The review of the amendment would, therefore, not be completed until after the federal decision in February 2014.

...2

Environmental Assessment Office

Mailing Address:
PO Box 9426 Stn Prov Govt
Victoria BC V8W 9V1

Location:
1st & 2nd Fl – 836 Yates Street
Victoria BC V8W 1L8

Following the federal decision, EAO did not hear from Taseko until early April 2014, when we were advised that Taseko was "still regrouping" on the new Prosperity project and that Taseko would be in touch with EAO when Taseko was "a bit more organized".

To my knowledge, EAO did not hear further from Taseko until a letter dated June 11, 2014. That letter was in response to EAO's letter of June 6, 2014, advising Taseko of the upcoming January 14, 2015, expiry date of its Certificate and reminding Taseko of the opportunity to apply for an extension to its Certificate. In the June 11, 2014, letter, Taseko requested a five-year extension to its Certificate and also requested EAO complete its review of the amendment application.

EAO responded in its correspondence dated July 14, 2014, and October 15, 2014, that EAO would not review the proposed amendment at that time, for reasons clearly articulated in those letters. EAO stated that if and when the Certificate extension is granted, EAO would be willing to consider the factors relevant at that time to determine the appropriate next steps with respect to the assessment of the proposed amendment.

Following the extension being granted on January 13, 2015, EAO did not receive any communication from Taseko from the date the extension was granted until your letter of May 13, 2016. Given the environmental assessment process is proponent-driven, I interpreted the absence of communications on this matter as indicating that Taseko was not pursing the amendment at this time. On May 5, 2016, I telephoned Ms. Katherine Gizikoff, Director, Environment and Governmental Affairs for Taseko, to get an update on the status of Taseko's projects in the environmental assessment process (the proposed Aley Niobium Project and the Prosperity amendment application). She indicated she was no longer working on Prosperity and could not advise on its status.

In light of your recent letter, EAO is prepared to proceed with the amendment process. Consistent with my letter dated July 14, 2014, EAO will now reassess the factors EAO noted in that correspondence, as well as other relevant factors to determine the appropriate next steps for the review of this application.

On initial review, EAO will need to consider amending its procedures to address the following matters:

- As noted in my letters of July 14, 2014, and October 15, 2014, EAO will need to reconsider its procedures and any additional information EAO might require in light of Taseko's outstanding legal challenge in federal court regarding the federal panel process.

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- As noted in EAO's Certificate Extension Report of December 2014, and the Reasons for Minister's Decision dated January 13, 2015, EAO's review of the proposed amendment will also need to consider whether to recommend to the Minister potential changes to, or new, Certificate conditions to address the new information or material changes since the Certificate was issued.
- The amendment review will need to address EAO's requirement that all proponents for all projects proposing new tailings dams conduct a tailings alternatives assessment that considers technology, siting and water balance. I understand Taseko currently is working on this assessment.
- The Province's commitment in section 12.42 of the Nenqay Deni Accord relating to environmental assessments.

To set out the appropriate next steps, as well as help identifying any additional information needs, EAO requires the following information from Taseko:

- A description of the status of the federal court process and anticipated timing for a decision from the federal court. If a federal court decision is expected soon, it may be prudent to wait on setting new procedures until the judgement is rendered and Taseko has determined how it accordingly wants to proceed.
- Taseko's perspective on whether and what limitations there may be on the use of the information and materials from the federal panel process in light of Taseko's challenge in federal court related to the federal panel report and process. Please note that I may canvass the views of other parties on this question as well.
- An overview of Taseko's approach, the options being considered, and the status and timing for Taseko's tailings alternatives assessment. Taseko's February 2016 financial report notes that Taseko is evaluating its current project design and alternatives, and that the assessment will be consistent with the province's requirements (which are available at: http://www.eao.gov.bc.ca/files/guidance/Proponent_Guidance-Tailings_Management.pdf); and
- A description of any other studies or assessments that may be relevant to the review of the proposed amendment that have been undertaken or are underway since the federal panel concluded its review. For example, I note that in the February 2016 financial report, Taseko states that it has ongoing monitoring of key groundwater baseline conditions. Will that information be available for or helpful to the amendment review?

I also wanted to take this opportunity to make you aware of discussions EAO has had with TNG regarding Taseko's request to proceed with the review of the amendment application. EAO has made TNG aware Taseko's request, and discussed EAO's views

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on its obligations to review the amendment application on June 8 and June 16, 2016. TNG set out its concerns in writing in a letter dated June 10, 2016, which is attached for your reference. I will also forward to you EAO's response to that letter once it is provided to TNG. EAO has shared with TNG Taseko's letter dated May13, 2016, and the June 14, 2016, response from the office of the Assistant Deputy Attorney General at the Ministry of Justice. EAO will also provide this letter to TNG.

In closing, I want to speak to your comment that this is an "extremely simple amendment to grant", because in Taseko's view the revised project design reduces environmental impacts and increases economic benefits. I appreciate that Taseko holds this view. However, EAO conducts reviews of proposed amendments so that it can form its own view of the potential effects of the proposed changes. In doing so, EAO needs to obtain the appropriate information, seek technical advice, and fulfil the Crown's constitutional obligation to meaningfully consult and accommodate, as appropriate, potentially affected Aboriginal Groups.

I look forward to working with your assigned company representative, to ensure that EAO has the information it requires for the review of the amendment application. Please let me know at your earliest convenience who you have assigned to be EAO's main contact at Taseko for the review. I can be reached at 250 387-1447 or by email at Shelley.Murphy@gov.bc.ca. Alternatively, you can contact Steve McNaughton, Project Assessment Officer, at 250 387-5838 or by email at Steve.McNaughton@gov.bc.ca.

Yours truly,

Shelley Murphy
Executive Project Director

Enclosure

cc: Honourable Bill Bennett, Minister of Energy & Mines
Bill.Bennett@gov.bc.ca

Honourable Mary Polak, Minister of Environment
Mary.Polak@gov.bc.ca

Honourable John Rustad, Minister of Aboriginal Relations and Reconciliation
John.Rustad@gov.bc.ca

Donna Barnett, MLA, Cariboo-Chilcotin
donna.barnett.mla@leg.bc.ca

...5

Kim Henderson, Deputy Minister to the Premier
Kim.Henderson@gov.bc.ca

Elaine McKnight, Deputy Minister, Ministry of Energy & Mines
Elaine.McKnight@gov.bc.ca

Doug Caul, Deputy Minister, Ministry of Aboriginal Relations and Reconciliation
Doug.Caul@gov.bc.ca

Kevin Jardine, Associate Deputy Minister, Environmental Assessment Office
Kevin.Jardine@gov.bc.ca

TŜILHQOT'IN NATIONAL GOVERNMENT
253 – 4th Avenue North • Williams Lake, BC V2G 4T4 • Phone (250) 392-3918 • Fax (250) 398-5798

June 10, 2016

Environmental Assessment Office
PO BOX 9426 STN PROV GOVT
VICTORIA BC
V8W9V1
CANADA

Attn: **Kevin Jardine**
Associate Deputy Minister

via email: Kevin.Jardine@gov.bc.ca

Michelle Carr
Assistant Deputy Minister

via email: Michelle.Carr@gov.bc.ca

Dear Mr. Jardine and Ms. Carr:

I write further to our phone call on June 8, 2016, when you advised that the Environmental Assessment Office (EAO) has decided to proceed with Taseko Mines Limited's (TML) application to amend its Environmental Assessment (EA) Certificate for the Prosperity Mine proposal.

Mr. Jardine stated that the EAO considered itself "legally obligated" to proceed with this amendment application because of a request by TML in a recent letter to the Premier. He stated that the EAO had no statutory authority to decline to proceed with the application in the face of TML's request.

We have not seen a copy of TML's letter to the Premier and we ask that you provide us with a copy at your earliest convenience.

I wish to reiterate the position expressed to you on our call, namely:

1. the EAO's decision to proceed with the amendment application is a complete reversal of the principled position that the EAO has maintained for almost two years;

2. as the EAO itself has made clear, it is *not* "legally obligated" to complete the amendment application simply because TML has made that request;

3. there is no legal or practical reason to consider an amendment application at this time, when the Project *cannot proceed* (in the face of its rejection by the

Federal Government) and the record that is central to the amendment decision is under legal challenge by the proponent;

4. The EAO can and should defer the amendment application until such time (if ever) that there is actually a project to review (*i.e.* in the unlikely event that the Federal Government reconsiders the rejection of New Prosperity).

I also write to request that the EAO take no further steps and suspend all decisions until a high-level meeting between Tsilhqot'in leadership and Provincial Ministers is convened and a discussion can occur in person.

Reversal of the EAO's Position

The EAO decided to review the New Prosperity proposal as a certificate *amendment* (rather than require a new EA). At that time, the EAO was clear that it would rely primarily—perhaps exclusively—on the information and findings of the federal panel process, *e.g.*:

> [EAO] will rely principally on the federal review Panel environmental assessment of the proposed New Prosperity Gold Copper-Mine Project for the information needed for EAO's assessment of the requested amendment.
>
> EAO considers that through the course of the Panel process sufficient information for the provincial review of the requested amendment will likely be available ...[1]

The EAO's procedures for the amendment application rely on the Panel Report as a central component of the review and as one of the key documents for the decision-making package (along with the Federal Decision Note).

To be clear, TNG objected to the EAO process, and still does; however, this is the process that the EAO itself imposed.

The Federal Panel issued its scathing report for New Prosperity on October 31, 2013, identifying a host of significant environmental and cultural impacts, particularly for the Tsilhqot'in people, and concluded that TML had failed to show even "proof of concept".[2] The Federal Government rejected the project (again) on February 26, 2014.

When TML requested an extension of its EA Certificate for Prosperity in June 2014, the company also demanded that the EAO complete the amendment application.[3] Notably, the EAO refused to proceed with the amendment application because it was not "appropriate" or "practical" at that time; in particular:

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[1] EAO, *Procedures for assessment of the proposed amendment to the Environmental Assessment Certificate for the Prosperity Gold-Copper Project* [underscore added].
[2] *Report of the Federal Review Panel - New Prosperity Gold-Copper Mine Project* (October 31, 2013), p. 87 ["Panel Report"].
[3] Letter, J. McManus to D. Caul (June 11, 2014).

- "TML has legal challenges underway challenging the procedural fairness, correctness and legitimacy of the information on which EAO had intended to rely for its review ...";

- "Accordingly, EAO would likely need to reassess and potentially revise its application review procedures in order to continue with the review";

- "In addition, federal agencies, TML and First Nations may be limited in the information and attention that they could provide to the review given the court proceedings";

- "TML could not pursue the Project, as proposed to be amended, unless TML is successful in its court challenges and any subsequent federal consideration of the proposed project"; and

- "The priority for EAO staff over the next several months will be considering TML's extension request".[4]

What this makes clear is that, in July 2014, the EAO did not consider itself "legally obligated" to complete the amendment review simply because TML had demanded it.

Instead, the EAO considered a number of factors, exercised its discretion, and decided that it was not "practical" to proceed at that time with the amendment request.

In fact, the EAO maintained this position in the face of TML's explicit complaints that the EAO had no legal basis to refuse to proceed.[5] The EAO confirmed that its approach was "appropriate and would not result in significant prejudice" to TML, stating:

> ... EAO "chose to coordinate its approach with the federal panel review process". Taseko did not disagree with this approach ...
>
> ... If Taseko were successful in the judicial review of the panel recommendation, I assume that a declaration of a breach of natural justice would render the Panel report and the conclusions void. I do not see how the EAO can make use of a report that may be considered a nullity, or at least is alleged to contain serious factual errors ...
>
> ...

[4] Letter, S. Murphy to J. McManus (July 14, 2014), pp. 3-4.
[5] Letter, J. McManus to D. Caul (July 30, 2014) [["... we do not believe there is any legitimate legal basis to further delay its decision on our amendment application ... there is no basis for EAO to refuse to proceed with the application ... we strongly encourage you to consult your legal counsel on this matter ..."].

> If EAO were to proceed with its assessment of the amendment now, in light of the allegations regarding the Panel process and subsequent report, EAO would need to set out new procedures for the provincial amendment review that do no rely on the federal process. To confirm, EAO would need to design a process that wasn't potentially relying on a report that could be considered a nullity, or a process that was found to be procedurally unfair.[6]

Note that the EAO declined, again, to complete the amendment request at that time—for reasons that are equally valid today. The EAO didn't proceed to design a new process that would avoid it having to "make use of" or "rely" on something as critical as the Panel Report.

In January 2015, the Province extended TML's Certificate for Prosperity (over TNG's objections). In its report, the EAO made it very clear that it declined to complete TML's amendment application, not only because the extension request was a priority, but also for other reasons that are equally true today:

> ... EAO also noted that it would not be practical to actively review the application for an amendment at this time because TML has legal challenges underway questioning the procedural fairness, correctness and legitimacy of the information on which EAO had intended to rely for its review of the proposed amendment, and TML could not pursue the Project, as proposed to be amended, unless it is successful in its court challenges and any subsequent federal reconsideration of New Prosperity.[7]

These same factors make it no more "practical to actively review the application" *today* than it was in January 2015.

Now, in June 2016, the EAO takes the position that it is "legally obligated" to complete the review, simply because TML has demanded it. This new position marks a complete reversal from:

- the EAO's rejection of this exact argument in 2014, when TML argued that the EAO had "no legitimate legal basis"[8] to refuse to complete the amendment review at that time;

- the EAO's position in 2014 that "it would not be practical to actively review the application for an amendment at this time because TML has legal challenges underway questioning the procedural fairness, correctness and legitimacy of the information on which EAO had intended to rely for its review ...";[9] and

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[6] Letter, S. Murphy to J. McManus (October 15, 2014), pp. 2-3 [underscore added].
[7] *Certificate Extension Report* (December 3, 2014), pp. 4-5 [underscore added].
[8] Letter, J. McManus to D. Caul (July 30, 2014).
[9] *Certificate Extension Report* (December 3, 2014), pp. 4-5.

- the EAO's position that it cannot not "make use of" or "rely on"[10] the Panel Report and other critical information while the validity and accuracy of this information is before the courts.

On the call, you said that the EAO intends to design a new process for the amendment review. This in itself marks contradicts the EAO's original position that:

- "[EAO] will rely principally on the federal review Panel environmental assessment ... for the information needed for EAO's assessment of the requested amendment";[11] and

- "... in light of the allegations regarding the Panel process and subsequent report, EAO would need to set out new procedures for the provincial amendment review that do not rely on the federal process".[12]

The EAO established a procedure for the amendment review that relies principally on the Panel review. TML did not object at that time. The Tsilhqot'in Nation participated fully in the federal review and it resulted in a Panel Report that confirmed the profound environmental and cultural impacts of concern to the Tsilhqot'in people, and resulted in rejection by the Federal Government.

It would be an affront to justice and fairness for the EAO to now design a *new* process, over *two years* after the rejection, that does not "rely on the federal process" or "make use of" of the Panel Report. There is simply no principled justification for such an extreme reversal of position and total disregard for exactly the information that the EAO previously identified as central and critical for the amendment determination.

The EAO is not "legally obligated" to complete the amendment process

We disagree with the EAO's position that it is "legally obligated" to proceed with the amendment request in light of TML's demands. As noted, the EAO *itself* disagreed with that position in 2014, and chose instead to exercise its discretion to defer the amendment review, based on practical concerns that are equally valid today.

No practical reason to proceed at this time

As reviewed above, there is no practical reason to proceed with the amendment application at this time; instead, there are compelling reasons to defer further steps in this process. As the EAO itself stated in December 2014:

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[10] Letter, S. Murphy to J. McManus (October 15, 2014), pp. 2-3.
[11] EAO, *Procedures for assessment of the proposed amendment to the Environmental Assessment Certificate for the Prosperity Gold-Copper Project.*
[12] Letter, S. Murphy to J. McManus (October 15, 2014), pp. 2-3.

> ... EAO also noted that it would not be practical to actively review the application for an amendment at this time because TML has legal challenges underway questioning the procedural fairness, correctness and legitimacy of the information on which EAO had intended to rely for its review of the proposed amendment, and TML could not pursue the Project, as proposed to be amended, unless it is successful in its court challenges and any subsequent federal reconsideration of New Prosperity.[13]

EAO should defer further steps in the amendment process

The EAO can and should defer further steps in the amendment process until the central record for this amendment review is certain (*i.e.* no longer subject to legal challenge) and it is known whether there is even a Project to review, in light of the federal rejection.

We are not asking the EAO to *refuse* to exercise its statutory responsibilities. We are asking the EAO to maintain its principled position since 2014 and exercise its statutory responsibilities in a manner that supports fair, efficient and informed decision-making.

The EAO should continue to defer further steps in the amendment review until:

- TML's legal challenges are complete;
- the fairness and accuracy of the record that the EAO intends to rely on is established (one way or the other); and
- it is known whether New Prosperity can even proceed, in light of the federal rejection,

Deferring further steps in the amendment process is not a *refusal* to exercise the EAO's statutory mandate—it is the only *responsible* and *reasonable* exercise of that mandate in the circumstances.

Concluding Remarks

As you know, the EAO has a troubled history with the Tsilhqot'in Nation. In some ways, this latest EAO decision is history repeating itself.

When the EAO assessed the original Prosperity Mine, it originally said that it would "harmonize" its process with the Federal Panel Review, including the hearings in Tsilhqot'in communities, and use that record to inform the EAO assessment.

Instead, in the months leading up to the Federal Panel hearings, the Province changed its process and rushed to approve the Prosperity Mine. The EAO Report dismissed the concerns raised by the Tsilhqot'in and concluded that the Project's impacts on them would be *insignificant.* There was no discernable reason for the Province to rush to an approval

[13] *Certificate Extension Report* (December 3, 2014), pp. 4-5 [underscore added].

before the Panel hearings had even started—the Project could not move forward before a federal decision. There appeared to be no other reason than a transparent effort by the EAO and the Province to influence or undermine the Panel Review process.

The EAO got it *wrong*—as two independent Panels have now confirmed beyond any doubt. Each Panel concluded, in no uncertain terms, that the Project would have profound, long-term and immitigable impacts on the Tsilhqot'in people, by depriving them of a deep connection to a place that is of "unique and special significance" to their people and way of life. Indeed, the Panel concluded that New Prosperity would "endanger their ability to sustain their way of life and cultural identity".[14]

The Prosperity Panel explained that it had reached different conclusions from the EAO, in part, because the Panel had taken the time to hear the abundant evidence delivered by Tsilhqot'in people in the community hearings—crucial evidence that the EAO had missed in its rush to decision.[15]

The EAO has never accepted, acknowledged or apologized for how it failed the Tsilhqot'in people in the Prosperity review. Rather than learn from that history, the EAO now seems intent, under pressure from the company, to reverse its position since 2014, and now proceed with the amendment review while the critical record for this process is under legal challenge.

Remarkably, the EAO intends to review an amendment for a Project that was *rejected* over two years ago and cannot proceed. And eighteen months into an amendment process that the EAO directed would "rely principally on the federal review Panel environmental assessment", the EAO is now preparing to redesign that process, all to accommodate the proponent.

The Tsilhqot'in Nation participated in *two* EA processes for this Project, at a tremendous toll. To be told now that the EAO intends to proceed with the amendment process for this Project (notwithstanding the Project has been rejected) and that the EAO intends to redesign the process (a process that currently relies on the record from the federal review that vindicates the position of the Tsilhqot'in people) can only further destroy the integrity and credibility of the EAO in the eyes of the Tsilhqot'in and the general public.

We reiterate our request that the EAO reconsider its decision. As noted, we also ask that the EAO and Province take no further steps and suspend all further decisions until such time as a high-level meeting between Tsilhqot'in Chiefs and Minsters is held.

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[14] *Panel Report*, p. x.

[15] *Report of the Federal Review Panel established by the Minister Of The Environment[:] Taseko Mines Limited's Prosperity Gold-Copper Mine Project* (July 2, 2010), p. ii ["... the Panel notes that the Province was not able to consider the final comments from federal departments nor was it able to take advantage of information received during the public hearing from First Nations on the current use of lands and resources for traditional purposes and effects on cultural heritage. The Panel notes that the public hearing was instrumental in gathering information from First Nations on these matters"].

Sincerely,



J.P. Laplante
TNG Mining, Oil and Gas Manager

cc. *Tsilhqot'in Chiefs*
Crystal Verhaeghe (TNG Lead Negotiator and Special Advisor)
Shelley Murphy (EAO Executive Project Director)

Pizarro, Kirsten EAO:EX

From: Hudson, Kimberley GCPE:EX
Sent: Wednesday, June 29, 2016 10:55 AM
To: Craven, Paul EAO:EX; Vinette, Nicole EAO:EX; Crebo, David GCPE:EX
Subject: FYI - CSCD FOI
Attachments: MOE Consultation - CSC-2015-52946.pdf

FYI folks – The attached FOI is a consult from CSCD (not sure if it came to you...).

Political Party: All incoming and outgoing correspondence including email related to the Jumbo Glacier Resort Project not being substantially started and the expiration of the project's environmental assessment certificate. (Date Range for Record Search: From 05/01/2015 To 08/28/2015)

Please advise if you have any recommendations.

Thanks!
Kim

Kim Hudson
Government Communications & Public Engagement
Ministry of Environment
Tel: 250 953.3698 | **Mobile:** 250 886.0830

June 10, 2015

JUMBO GLACIER MOUNTAIN RESORT MUNICIPALITY DECISION

s.13

June 10, 2015

s.13

June 10, 2015

s.13

Dick, Joan L CSCD:EX

From: Dick, Joan L CSCD:EX
Sent: Tuesday, June 16, 2015 1:11 PM
To: Mitschke, Matt ENV:EX
Cc: Kapac de Frias, Martina E FLNR:EX
Subject: RE: Jumbo

Yes. J.

From: Mitschke, Matt ENV:EX
Sent: Tuesday, June 16, 2015 12:55 PM
To: Dick, Joan L CSCD:EX
Cc: Kapac de Frias, Martina E FLNR:EX
Subject: Fw: Jumbo

Hey Joan, attached is our general IN, I will have to call you on this because I will need to clarify some things for MCO. Are you available around 315?

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Leake, Greg EAO:EX <Greg.Leake@gov.bc.ca>
Sent: Tuesday, June 16, 2015 9:24 AM
To: Mitschke, Matt ENV:EX
Subject: RE: Jumbo

From: Mitschke, Matt ENV:EX
Sent: Tuesday, June 16, 2015 9:22 AM
To: Leake, Greg EAO:EX
Subject: Fw: Jumbo

Do we have a generic Jumbo note I can flip Oakes cos

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Dick, Joan L CSCD:EX <Joan.Dick@gov.bc.ca>
Sent: Monday, June 15, 2015 5:12 PM
To: Mitschke, Matt ENV:EX
Subject: Jumbo

Matt:
MCO is looking for something (an IN perhaps?) that describes the circumstances going forward based on the decision MMP is announcing on Thursday.

s.13

Got anything that speaks to the decision MMP has to make and what is involved in the options?
J.

Dick, Joan L CSCD:EX

From: Mitschke, Matt ENV:EX
Sent: Tuesday, June 16, 2015 12:55 PM
To: Dick, Joan L CSCD:EX
Cc: Kapac de Frias, Martina E FLNR:EX
Subject: Fw: Jumbo
Attachments: IN_EAO_Jumbo Glacier Resort avalanche and Sub Start_24Apr2015-2.doc

Hey Joan, attached is our general IN, I will have to call you on this because I will need to clarify some things for MCO. Are you available around 315?

Sent from my BlackBerry 10 smartphone on the TELUS network.

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Sent: Tuesday, June 16, 2015 9:24 AM
To: Mitschke, Matt ENV:EX
Subject: RE: Jumbo

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J.

Page 0341 to/à Page 0343

Withheld pursuant to/removed as

DUPLICATE

Dick, Joan L CSCD:EX

From: Mitschke, Matt ENV:EX
Sent: Thursday, June 18, 2015 1:10 PM
To: Fraser, John Paul GCPE:EX; Gleeson, Kelly T GCPE:EX; Gordon, Matt GCPE:EX; Sweeney, Neil PREM:EX; Chin, Ben PREM:EX; Cadario, Michele PREM:EX; Southern, Evan PREM:EX; Mills, Shane LASS:EX
Cc: Hancock, Tom ENV:EX; Dick, Joan L CSCD:EX; Strongitharm, Bruce FLNR:EX; Petrie, Cynthia MEM:EX; Campbell, Carolyn ABR:EX
Subject: Fw: Final Comms Materials -- Jumbo Announcement
Attachments: SpeakingPoints_Jumbo_Sub Start Decision_16JUN15.docx; Roll Out Plan_Jumbo_Sub Start Decision_16JUN15.docx; QA_Jumbo_Sub Start Decision_16JUN15.doc; IB_Jumbo_Sub Start Decision_16JUN15.doc

Please find attached MMP's materials for the Jumbo announcement at 2 PM today. MMP will be announcing that the project is not substantially started. As a result the project will have its EA certificate cease to exist as of October 12, 2014.

Call me if you have any questions.

Matt

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Leake, Greg EAO:EX <Greg.Leake@gov.bc.ca>
Sent: Thursday, June 18, 2015 12:57 PM
To: Mitschke, Matt ENV:EX
Subject: Final Comms Materials -- Jumbo Announcement

As requested.

Greg Leake
Director, Client Communications & Engagement
BC Environmental Assessment Office
250.387.2470

BRITISH COLUMBIA

INFORMATION BULLETIN

[release number]
June 18, 2015

Ministry of Environment
Environmental Assessment Office

Jumbo Glacier Resort Project not substantially started

VICTORIA – Environment Minister Mary Polak has determined that the Jumbo Glacier Resort project has not been substantially started. As a result, the environmental assessment certificate has expired and Glacier Resorts Ltd. cannot proceed with developing this project unless a new certificate is obtained.

The Minister was required to make a determination because the Environmental Assessment Act requires that all approved projects must be substantially started within the time limit set out in the certificate or the certificate expires. Documentation related to the Minister's decision can be found at: http://tinyurl.com/q93nzon.

Substantially started decisions are considered on a case-by-case basis. In making her decision, the Minister focused on the physical activities that had taken place at the project site. In this case, the Minister determined that the physical activities undertaken on the various components did not meet the threshold of a substantially started project.

In making her determination, the Minister considered:

- submissions from Glacier Resorts Ltd., the Ktunaxa Nation Council and the Shuswap Indian Band;
- guidance from the court decision in *Taku River Tlingit First Nation v. British Columbia*;
- the Environmental Assessment Office's substantially started determination report; and
- her own observations from a visit to the Jumbo Glacier Resort project site on October 11, 2014.

The Minister considered information submitted by the Ktunaxa Nation Council and the Shuswap Indian Band because the project is located in their asserted traditional territories.

The project is a year-round ski resort development in the Jumbo Creek valley, 55 km west of Invermere. The Province issued an environmental assessment certificate for the project on October 12, 2004. As a result of an extension issued in 2009, the expiry date of the certificate was October 12, 2014.

Contact: Communications
Ministry of Environment
250 953-3834

Dick, Joan L CSCD:EX

From:	Mitschke, Matt ENV:EX
Sent:	Thursday, June 18, 2015 1:59 PM
To:	Gordon, Matt GCPE:EX; Fraser, John Paul GCPE:EX; Gleeson, Kelly T GCPE:EX; Sweeney, Neil PREM:EX; Chin, Ben PREM:EX; Cadario, Michele PREM:EX; Southern, Evan PREM:EX; Mills, Shane LASS:EX
Cc:	Hancock, Tom ENV:EX; Dick, Joan L CSCD:EX; Strongitharm, Bruce FLNR:EX; Petrie, Cynthia MEM:EX; Campbell, Carolyn ABR:EX
Subject:	Re: Final Comms Materials -- Jumbo Announcement

Yes MMP lead in media today.

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Gordon, Matt GCPE:EX
Sent: Thursday, June 18, 2015 1:31 PM
To: Mitschke, Matt ENV:EX; Fraser, John Paul GCPE:EX; Gleeson, Kelly T GCPE:EX; Sweeney, Neil PREM:EX; Chin, Ben PREM:EX; Cadario, Michele PREM:EX; Southern, Evan PREM:EX; Mills, Shane LASS:EX
Cc: Hancock, Tom ENV:EX; Dick, Joan L CSCD:EX; Strongitharm, Bruce FLNR:EX; Petrie, Cynthia MEM:EX; Campbell, Carolyn ABR:EX
Subject: RE: Final Comms Materials -- Jumbo Announcement

Confirming plan today is let MMP lead and handle media today?
MCO and MST can address their areas effective tomorrow? If today, I'll have shops stack calls to start (if they come in this quick) and will run past messaging prior.

Expect MCO in particular will be approached quickly on her area of responsibility. NOTE – CSCD is double checking their QA with JAG... I go back and check status

Matt Gordon
Assistant Deputy Minister
Strategic Planning & Public Engagement
Government of British Columbia
250 356.7398 office
250 896.4923 mobile

From: Mitschke, Matt ENV:EX
Sent: Thursday, June 18, 2015 1:10 PM
To: Fraser, John Paul GCPE:EX; Gleeson, Kelly T GCPE:EX; Gordon, Matt GCPE:EX; Sweeney, Neil PREM:EX; Chin, Ben PREM:EX; Cadario, Michele PREM:EX; Southern, Evan PREM:EX; Mills, Shane LASS:EX
Cc: Hancock, Tom ENV:EX; Dick, Joan L CSCD:EX; Strongitharm, Bruce FLNR:EX; Petrie, Cynthia MEM:EX; Campbell, Carolyn ABR:EX
Subject: Fw: Final Comms Materials -- Jumbo Announcement

Please find attached MMP's materials for the Jumbo announcement at 2 PM today. MMP will be announcing that the project is not substantially started. As a result the project will have its EA certificate cease to exist as of October 12, 2014.

Call me if you have any questions.

Matt

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Leake, Greg EAO:EX <Greg.Leake@gov.bc.ca>
Sent: Thursday, June 18, 2015 12:57 PM
To: Mitschke, Matt ENV:EX
Subject: Final Comms Materials -- Jumbo Announcement

As requested.

Greg Leake
Director, Client Communications & Engagement
BC Environmental Assessment Office
250.387.2470

Dick, Joan L CSCD:EX

From: Mitschke, Matt ENV:EX
Sent: Thursday, June 18, 2015 2:02 PM
To: Dick, Joan L CSCD:EX; Fraser, John Paul GCPE:EX; Gleeson, Kelly T GCPE:EX; Gordon, Matt GCPE:EX; Sweeney, Neil PREM:EX; Chin, Ben PREM:EX; Cadario, Michele PREM:EX; Southern, Evan PREM:EX; Mills, Shane LASS:EX
Cc: Hancock, Tom ENV:EX; Strongitharm, Bruce FLNR:EX; Petrie, Cynthia MEM:EX; Campbell, Carolyn ABR:EX
Subject: Re: Final Comms Materials -- Jumbo Announcement

Yes sorry, I was driving over the Malahat but am available now

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Dick, Joan L CSCD:EX
Sent: Thursday, June 18, 2015 1:39 PM
To: Mitschke, Matt ENV:EX; Fraser, John Paul GCPE:EX; Gleeson, Kelly T GCPE:EX; Gordon, Matt GCPE:EX; Sweeney, Neil PREM:EX; Chin, Ben PREM:EX; Cadario, Michele PREM:EX; Southern, Evan PREM:EX; Mills, Shane LASS:EX
Cc: Hancock, Tom ENV:EX; Strongitharm, Bruce FLNR:EX; Petrie, Cynthia MEM:EX; Campbell, Carolyn ABR:EX
Subject: Re: Final Comms Materials -- Jumbo Announcement

Thanks Matt. Was in a meeting when you called. Assume it was just a heads up.
J.

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Mitschke, Matt ENV:EX
Sent: Thursday, June 18, 2015 1:10 PM
To: Fraser, John Paul GCPE:EX; Gleeson, Kelly T GCPE:EX; Gordon, Matt GCPE:EX; Sweeney, Neil PREM:EX; Chin, Ben PREM:EX; Cadario, Michele PREM:EX; Southern, Evan PREM:EX; Mills, Shane LASS:EX
Cc: Hancock, Tom ENV:EX; Dick, Joan L CSCD:EX; Strongitharm, Bruce FLNR:EX; Petrie, Cynthia MEM:EX; Campbell, Carolyn ABR:EX
Subject: Fw: Final Comms Materials -- Jumbo Announcement

Please find attached MMP's materials for the Jumbo announcement at 2 PM today. MMP will be announcing that the project is not substantially started. As a result the project will have its EA certificate cease to exist as of October 12, 2014.

Call me if you have any questions.

Matt

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Leake, Greg EAO:EX <Greg.Leake@gov.bc.ca>
Sent: Thursday, June 18, 2015 12:57 PM
To: Mitschke, Matt ENV:EX
Subject: Final Comms Materials -- Jumbo Announcement

As requested.

Pizarro, Kirsten EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Wednesday, June 29, 2016 10:54 AM
To: Shepard, Michael EAO:EX; Braun, Nathan EAO:EX
Cc: Walton, Lindsay EAO:EX; Schell, Natalie EAO:EX; Craven, Paul EAO:EX
Subject: RE: Heads up: Metro Vancouver announcement re: GMT project and MV impact assessment report

Thanks for this info and the heads-up, Mike. I'll be sure to move the revised IN up the approvals chain quickly in case we get any media interest on this one. Thanks...

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

From: Shepard, Michael EAO:EX
Sent: Wednesday, June 29, 2016 10:24 AM
To: Braun, Nathan EAO:EX; Vinette, Nicole EAO:EX
Cc: Walton, Lindsay EAO:EX; Schell, Natalie EAO:EX
Subject: Heads up: Metro Vancouver announcement re: GMT project and MV impact assessment report

Nathan and Nicole,

Earlier today, Metro Vancouver announced details of its impact assessment report, in which they indicate they will not be able to support the proposed project. It identifies key areas of concern, similar to what we have heard during pre-Application, which include:

- Insufficient consideration of alternatives to a 10-lane bridge
- Lack of integration into the regional growth strategy and transportation network
- Ecological disruption to the Fraser River estuary, an important habitat for salmon and birds
- Impacts on Metro Vancouver infrastructure, including water mains and sewer lines
- Recreational and ecological disruption on Deas Island Regional Park
- Downloading of major expenditures onto local governments for road improvements
- Negative effects on transit ridership and affordability
- Insufficient consideration to climate change and air quality
- Lack of transparency and consultation with respect to design and business case

The report appears to summarize details and effects described in the Application, despite the fact that the version of the Application reviewed by Metro Vancouver was the screening copy, which has now changed over the 30 day screening period. The report also re-iterates MV's desire for a federal review of the project.

Metro Vancouver will be sending a letter addressed to the Premier, Ministers of Transportation and Environment (including Federal Minister) and EAO that communicates their analysis, position and concerns. The report has also just been made public:

http://www.metrovancouver.org/boards/GVRD/RD_2016-Jun-24_RCL.pdf#search="IMPACT%20ASSESSMENT%20OF%20GEORGE%20MASSEY%20TUNNEL%20REPLACEMENT%20PROJECT"

For Nicole's information, tomorrow is day 30 in the application review period. The Proponent will be requesting additional time today and an extension to the screening period, to allow them a few more weeks to address comments and deficiencies of the application. We updated the issues summary note yesterday, but will add more today to reflect the news above.

Let us know if you have any questions.

Mike

Pizarro, Kirsten EAO:EX

From: Shepard, Michael EAO:EX
Sent: Wednesday, June 29, 2016 10:16 AM
To: Craven, Paul EAO:EX
Subject: FYI: Metro Vancouver report re: GMT project and desire for federal review

Paul,
I thought you would be interested to read an excerpt from a report released today by Metro Vancouver with regards to its concerns related to the George Massey Tunnel Project.
http://www.metrovancouver.org/boards/GVRD/RD_2016-Jun-24_RCL.pdf#search="IMPACT%20ASSESSMENT%20OF%20GEORGE%20MASSEY%20TUNNEL%20REPLACEMENT%20PROJECT"
There is a paragraph of particular relevance, that reiterates their desire for a federal review of the project, including the following rationale;
Some key features that characterize the environmental review of a project through *CEAA 2012* include:
- greater independence between project proponents and reviewers, to ensure that project impacts are assessed in an impartial and objective manner;
- greater rigour of the analytical process;
- longer timeframe (at least 365 days for an environmental assessment conducted by the Agency and at least 24 months for an environmental assessment by a review panel);
- more substantial public / stakeholder input, including the opportunity to comment on the draft environmental assessment report;
- incorporation of broader impacts into assessment, including direct, indirect and cumulative effects;
- mitigation measures identified in the environmental assessment decision statement are incorporated into the design plans and implemented with the project;
- review of projects by a review panel is conducted by members selected on the basis of their knowledge, experience and expertise, who must be free from bias or conflict of interest relative to the project;
- a review panel has the ability to assess whether the environmental impact statement prepared by the proponent is sufficient to proceed to public hearings;

Michael Shepard
Project Assessment Manager
Environmental Assessment Office
Michael.Shepard@gov.bc.ca
Office: 1-250-387-0233
Cell: 1-250-213-9809

Pizarro, Kirsten EAO:EX

From: Simpson, Vickie L EAO:EX
Sent: Wednesday, June 29, 2016 10:03 AM
To: Craven, Paul EAO:EX; Pizarro, Kirsten EAO:EX
Cc: Cote, Betty A EAO:EX; Starks, Terri EAO:EX; Lawrence, Cheryl A EAO:EX
Subject: FW: Call for Records EAO-2016-62505 Due July 14, 2016
Attachments: Call - form - EAO-2016-62505.pdf

Here is the official FOI request. Note due dates. Fee estimate due July 6th and the records are due July 14th. Thanks
Vickie

From: Peddle, Jennifer [mailto:IAOResourceTeam@gov.bc.ca]
Sent: Wednesday, June 29, 2016 9:47 AM
To: Simpson, Vickie L EAO:EX; Lawrence, Cheryl A EAO:EX; Starks, Terri EAO:EX
Subject: Call for Records EAO-2016-62505 Due July 14, 2016

Your Ministry has received a formal request made under the *Freedom of Information and Protection of Privacy Act* (FOIPPA). The request is for:

Relating to the Jumbo Glacier Project - the following documents referred to in BC Supreme Court Judgement, Ktunaxa Nation v. British Columbia Forests, Lands and Natural Resource Operations, 2014 BCSC 568: January 2006 KNC consultant Pearse prepares gap analysis of EAO review as it related to Ktunaxa interests for ongoing consultation between Ministry and Ktunaxa; December 2003 Consultant Anielski prepares a report for EAO confirming many Ktunaxa identify sacred values in Jumbo area. (Date Range for Record Search: From 12/01/2003 To 01/31/2006) – Date Format: MM/DD/YYYY

Please complete the attached Call for Records form.
• If search and retrieval time is anticipated to exceed 3 hours and/or the total volume of records exceeds 200 pages, complete **only** sections 1 & 2 of the Call for Records form as we may be in a position to issue a fee estimate. Return the form to IAO by July 6, 2016. Please await further instruction from IAO as the records will not be required until the fee estimate process has been completed. Once fees have been paid or waived, IAO will contact you to continue the call for records process.
• If **no fees apply** then complete the attached Call for Records form and return it to IAO by July 14, 2016.
• Send records via email in **PDF format**. Before you turn emails into PDFs, ensure that you have included all attachments. If email is not possible, please put the records on the **File Share** and notify IAO that the records are available.

You should be aware that *FOIPPA* obligates us to assist the applicant and to respond without delay, openly, accurately, and completely. In the event that your Ministry must defend the adequacy of its search to the Information and Privacy Commissioner at Inquiry, those involved in searching for records may be required to sign affidavits confirming they have conducted an adequate search for relevant records.

Please do not hesitate to contact IAO to discuss: whether the records may be routinely releasable; whether the information is being prepared for public release or is already publicly available; ways in which an applicant may want to narrow/focus their request to reduce potential fees; and/or any other questions or concerns relating to this request.

Thank you for your assistance,

Resource Team
Information Access Operations
On behalf of,
Evan Levesque | FOI Analyst, Access to Information
Ph: 778 698-2329

e: IAOResourceTeam@gov.bc.ca
m: PO Box 9569 Stn Prov Gov Victoria BC V8W 9K1

BRITISH COLUMBIA

INFORMATION ACCESS OPERATIONS
Ministry of Finance

CALL FOR RECORDS

FOI REQUEST: EAO-2016-62505

GENERAL REQUEST ◉ **PERSONAL REQUEST** ○
Personal Request authorization received date: _____

APPLICANT TYPE	DATE RECEIVED	FOI ANALYST	FEE ESTIMATE DUE	RECORDS DUE
Researcher	06/17/2016	Levesque, Evan	July 6, 2016	July 14, 2016

REQUEST DETAILS:

Relating to the Jumbo Glacier Project - the following documents referred to in BC Supreme Court Judgement, Ktunaxa Nation v. British Columbia Forests, Lands and Natural Resource Operations, 2014 BCSC 568: January 2006 KNC consultant Pearse prepares gap analysis of EAO review as it related to Ktunaxa interests for ongoing consultation between Ministry and Ktunaxa; December 2003 Consultant Anielski prepares a report for EAO confirming many Ktunaxa identify sacred values in Jumbo area. (Date Range for Record Search: From

Section 1: Initial Records Assessment

Do you hold responsive records? If no, please provide an explanation that can be given to the applicant (if applicable): **YES** ○ **NO** ○

Are you aware of other records that may be responsive to this request within your Ministry? **YES** ○ **NO** ○

Are you aware of other records that may be responsive to this request held by another public body? **YES** ○ **NO** ○

If yes, specify:

NO RECORDS RESPONSE APPROVAL:

Please forward to Ministry FOI Contact (if applicable) for Delegated Head's final public body approval if no records have been located.

Final Public Body Approval (Full name, Title)	Signature:	Date:

Section 2: Fee Estimate — General Request only (if this is a Personal Request skip to Section 3)

Please ensure that all reasonable efforts are made to generate as accurate an estimate as possible

Search

Locating/Retrieving
Tasks may include:
- Searching for hard & electronic files
- Reviewing box content lists
- Retrieving records from off site
- Retrieving email records (Outlook)

Estimated Hours ____ *Actual Hours* ____

Producing records
Tasks may include:
- Identifying relevant sources of data/information
- Manual time spent creating and producing records

Estimated Hours ____ *Actual Hours* ____

Volume

Electronic files (in pages):
***Other refers to PDF, Word, Excel, photos and any other electronic file responsive to the request**

	Estimated Pages	*Actual Pages*
Email without attachments:		
Email with attachments:		
***Other documents**		

Hardcopy files (in pages):
- **Average file folder = 1" and holds approximately 200 pages (single sided)**
- **1 Standard Records Centre Services Box:**
  - **If in legal sized folders - 1,800 pages**
  - **If in letter sized folders - 2,200 pages**

Estimated Pages ____ *Actual Pages* ____

Preparation

Tasks may include :
- **Photocopying/scanning records into electronic format (PDF)**
- **Ensuring completeness of responsive records**
- **Copying other types of media; if so please specify:**

Estimated Hours ____ *Actual Hours* ____

Section 3: Search Summary and Program Area Recommendations

Please describe the search for records including what records were searched, (eg. files, email, databases, TRIM files, off site records, etc.), duration of search time, and who concluded the search for records.

Could release of any/all of the responsive records potentially cause harm? YES ◯ NO ◯

***Harm – Disclosure of the records would significantly harm the ministry's position, or a third party's interests on a given topic. The harms assessment allows FOI staff to better understand the context of the records and make informed severing recommendations based on potential harms. (Issues associated with possible disclosure through the FOI process that are unrelated to the harms assessment should be communicated to your ministry executive and/or Government Communications and Public Engagement office.)**

If yes which information, if released, may cause harm?

- ***Please reference the applicable records and information of concern, the harms, and associated page numbers below.***
- ***If any of these records have been prepared for, or used to inform, a decision of Cabinet or any of its committees, section 12 (Cabinet confidences) may apply. Please identify the applicable records and advise: (1) what is the status of the issue? and (2) has the decision been made public or implemented?***

(GENERAL REQUEST ONLY)-
Unless specific exemption criteria apply, records provided to the applicant in response to this request will be published on the Government's Open Information Website If you have any concerns about the publication of the responsive records please indicate here or discuss with your FOI Analyst.

Section 4: Contact Information

Who completed this form? (Full Name, Title):	Phone Number:	Date:

Harms assessment completed by (Full Name, Title)	Program Area:

Harms assessment approved by (Full Name, Title)

Pizarro, Kirsten EAO:EX

From: Filmer, Cam A TRAN:EX
Sent: Wednesday, June 29, 2016 9:37 AM
To: Craven, Paul EAO:EX; Petruzzelli, Lynda TRAN:EX
Cc: Handrahan, Kirk TRAN:EX; Faubert, Reg P TRAN:EX
Subject: FW: Federal Regulatory Review Process (EA and NEB)
Attachments: IN_EAO_Federal_Review_and Interim_Approach_20June2016.docx

Hi Paul,

Linking you into Lynda

Regards

Cam

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 9:26 AM
To: Filmer, Cam A TRAN:EX
Subject: FW: Federal Regulatory Review Process (EA and NEB)

Hi Cam,

Further to our brief chat, can you link me in to your group who is handling the Navigable Waters Review? Thanks.

From: Craven, Paul EAO:EX
Sent: Wednesday, June 22, 2016 11:23 AM
To: Danks, Anthony ENV:EX; Paquin, Lisa C ENV:EX; Amann-Blake, Nathaniel MEM:EX; Wheler, Francesca M ABR:EX; Morgan, Andrew; Smith, Grant H IGRS:EX; Rowe, Katherine FLNR:EX; Filmer, Cam A TRAN:EX; Beltrano, Linda MNGD:EX; Schwabe, Michelle MNGD:EX; Witt, Andy FLNR:EX
Cc: Jones, Christopher H JAG:EX; Craven, Paul EAO:EX; Paulson, Ken OGC:IN; Rennert-May, Leya EAO:EX; Scraba, Erin H EAO:EX; Cheema, Kashmiro K EAO:EX
Subject: Federal Regulatory Review Process (EA and NEB)

Hello everyone,

See below. I will set up a meeting/teleconference shortly so we can have an initial discussion on how to proceed. If I have the wrong person or should be including someone else please let me know. The following link will give a window into the federal material: https://www.canada.ca/en/services/environment/conservation/assessments/environmental-reviews.html

Thanks,

Paul

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 22, 2016 9:07 AM
To: Sheldan, Tim FLNR:EX; Caul, Doug D ABR:EX; Sturko, Derek AGRI:EX; Nikolejsin, Dave MNGD:EX; Shoemaker, Wes ENV:EX; Main, Grant TRAN:EX; McKnight, Elaine L MEM:EX; Maranda, Pierrette IGRS:EX
Cc: Henderson, Kim N PREM:EX; Sweeney, Neil PREM:EX; Craven, Paul EAO:EX; Carr, Michelle EAO:EX; Loiacono,

Sabrina EAO:EX; Kapac de Frias, Martina E ENV:EX
Subject: Federal EA Review Process

Colleagues,

As you know, earlier this week the federal government announced the process for the regulatory reviews of federal environmental assessment process and modernizing the National Energy Board. Both reviews will be conducted by Expert Panels that will begin public consultations in September 2016 and are required to produce a final report with recommendations by January 2017. The panels will be named following a public comment period on the terms of reference (which ends July 20, 2016). Please see the attached IN for further details.

EAO will co-ordinate the provincial response to both reviews although the approach to the review on modernizing the National Energy Board may be slightly different given the broader nature of the NEB's responsibilities and the review itself. We took a similar approach as we prepared the provincial response to the parliamentary review before the introduction of CEAA 2012.

I have asked Paul Craven to lead this work and he will be in contact with his counterparts in your Ministries. If you would like to name a specific individual to be involved in this work please let us know.

I anticipate that we will also need to be co-ordinated with the approaches on the reviews concerning restoring lost protections and introducing modern safeguards to the Fisheries Act and the Navigation Protection Act. Perhaps we could discuss our approach to this review at an upcoming NRB meeting or in an ad hoc call, as clearly EAO is not the appropriate agency to lead this work.

As the work progresses, we will provide further updates. Please don't hesitate to contact me in the meantime should you wish to discuss further.

With best rgds,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

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FEDERAL REVIEW OF ENVIRONMENTAL ASSESSMENTS

- The Prime Minister has mandated a review the federal environmental assessment processes. The federal government has announced the process for fulfilling this commitment.

- The Minister of Environment and Climate Change will establish an expert panel to consult with Indigenous groups and a broad range of stakeholders, including the public, industry representatives and environmental groups.

- The expert panel will begin consulting in September 2016 and provide the federal Minister with a report and recommendations by January 31, 2017.

- The members of the expert panel will be appointed following public consultation on the panel's draft Terms of Reference.

- We look forward to offering our expertise to the review process so that we can have environmental assessments in British Columbia which will meet the needs of the public, First Nations and our respective governments while providing a predictable, transparent and timely process for proponents and participants.

- The Prime Minister's mandate letter recognizes that we must avoid duplication between federal and provincial processes. Substitution (one assessment; two decisions) has been successfully implemented and we want to continue to build on this success.

- The federal government previously identified principles that will guide assessments in the interim. These principles are generally consistent with how British Columbia conducts environmental assessments.

Background:

- The Prime Minister has mandated the Minister of Environment and Climate Change and other related Ministries to review the federal environmental assessment (EA) process to "restore robust oversight and thorough environmental assessment of areas under federal jurisdiction, while also working with provinces and territories to avoid duplication" as well as "ensure that environmental assessment legislation is amended to enhance the consultation, engagement and participatory capacity of Indigenous groups in reviewing and monitoring major resource development projects."

Interim Approach

- On January 27, 2016, the federal Minister of Environment and Climate Change and the Minister of Natural Resources announced an interim approach to EA that includes principles and plans for major projects.
- The interim approach included the following five principles:
  1. No project proponent will be asked to return to the starting line - project reviews will continue within the current legislative framework and in accordance with treaty provisions, under the auspices of relevant responsible authorities and Northern regulatory boards;
  2. Decisions will be based on science, traditional knowledge of Indigenous peoples and other relevant evidence;
  3. The views of the public and affected communities will be sought and considered;
  4. Indigenous peoples will be meaningfully consulted and, where appropriate, impacts on their rights and interests will be accommodated; and
  5. Direct and upstream greenhouse gas emissions linked to the projects under review will be assessed.
- The five principles largely align with current EA practice in British Columbia with the exception of the fifth principle that requires upstream greenhouse gas emissions linked to the projects to be assessed. It is recognized that upstream emissions are beyond the control of proponents. The information obtained will be used to support final project decisions and broader climate change policy.
- EAO continues to consult with our ministry partners and the relevant federal agencies to determine how these new measures will be applied to new and other mid-stream projects and will advise accordingly as information becomes available.

Federal Expert Panel Review – Environmental Assessment Processes

- On June 23rd, 2016, the federal Minister announced the process for the review. Following the finalization of terms of reference, the Minister will appoint a review panel. Beginning in September 2016, the expert panel will be consulting with Indigenous groups and a broad range of stakeholders on the following.

  - *How to restore robust oversight and thorough environmental assessments of areas under federal jurisdiction, while working with the provinces and territories to avoid duplication?*
  - *How to ensure decisions are based on science, facts and evidence and serve the public's interest?*
  - *How to provide ways for Canadians to express their views and opportunities for experts to meaningfully participate?*
  - *How to require project advocates to choose the best technologies available to reduce environmental impacts?*

- *How to ensure that environmental assessment legislation is amended to enhance the consultation, engagement and participatory capacity of Indigenous groups in reviewing and monitoring major resource development projects?*

- The Expert Panel's mandate addresses environmental assessments conducted by the Canadian Environmental Assessment Agency, the National Energy Board (NEB) and the Canadian Nuclear Commission.
- The Expert Panel's draft terms of reference are available for comment until July 20, 2016. Before proceeding, the Expert Panel is required to prepare public and indigenous engagement plans for in-person engagement activities.
- The expert panel may seek the perspective of provinces and territories at any point during the review on specific questions or issues that intersect with provincial and territorial areas of jurisdiction. Provinces and territories may also provide written or in-person submissions to the panel.
- A Multi-Interest Advisory Committee will also be set up to assist the panel. The committee will include representatives from Indigenous organizations, industry associations and environmental groups. The advice provided to the panel will be posted on the panel's website. The panel will include a summary of the advice provided in its report.
- s.16

Federal Expert Panel Review – Modernizing the National Energy Board

- The Minister of Natural Resources also announced a similar process and timing for review aimed at modernizing the NEB. The focus of NEB Modernization will include governance; mandate; decision-making roles; legislative tools for lifecycle regulation; indigenous engagement and public participation.
- Both of these reviews will be in parallel with reviews restoring lost protections and introducing modern safeguards to the *Fisheries Act* and the *Navigation Protection Act*. Those reviews are undergoing a different process (parliamentary committee). The timeline for this work is similar but less prescriptive (early 2017). Provincial input is being undertaking through established FPT committees.

Next Steps

- EAO will be coordinating the response to both the expert panel on environmental assessment and modernizing the NEB to recommend an approach and response to the expert panels.

Communications Contact:	Nicole Vinette	250 356-5311
Program Area Contact:	Paul Craven	250 387-6758

Pizarro, Kirsten EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Wednesday, June 29, 2016 9:26 AM
To: Crebo, David GCPE:EX
Cc: Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX
Subject: FYI: Mt Polley Mine Project - Revised IN
Attachments: IN_EAO_Mt_Polley_Amendment_29Jun2016.docx

Hi Dave,

Please find attached EAO's revised IN re: Mt. Polley. If you have any questions, just let me know.

Sabrina, can you please upload this IN to the Minister's Sharepoint when you get the chance? Thanks!

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

MT POLLEY AMENDMENTS

- On May 19, 2016, the Environmental Assessment Office amended the Environmental Assessment Certificate for the Mount Polley Mine to increase the milling rate specified in the Environmental Assessment Certificate.

- The Mount Polley Mining Corporation has indicated that the Environmental Assessment Office can expect to receive shortly a second application to amend its Environmental Assessment Certificate for the Mount Polley Mine.

- This amendment application will seek to modernize the Certificate and bring it up to date with the current regulatory framework and reflect currently permitted activity and operations.

- The Environmental Assessment Office's review of the amendment application will include consultation with First Nations and seeking advice from the technical experts on the Mine Development Review Committee.

Background:

- The Mount Polley Mining Corporation (MPMC), a subsidiary of Imperial Metals, holds Environmental Assessment (EA) Certificate #M96-07 issued for the Mount Polley Copper project (Mount Polley).
- The EA Certificate was originally issued in the form of a mine development certificate on October 6, 1992, before the *Environmental Assessment Act* (Act) existed. It continues in force as an EA certificate under the current Act. As a consequence, the process for changes to the EA certificate is somewhat different than other certificates under the Act.
- The EA Certificate requires an amendment only for changes in the milling rate or term of the Certificate, although the transition provisions in moving to an EA Certificate eliminated the restriction on the term of the Certificate.
- All other alterations to the project, if they are "material", require the written consent of the Minister of Environment and the Minister of Energy and Mines.
- As Mount Polley evolved, MPMC sought permits for changes. However, no EA approvals were sought for changes to the milling rate, and there is a lack of documentation around any consideration of whether alterations were material.
- On August 5, 2015, the company restarted operations at approximately 50 percent capacity compared to the capacity immediately before the August 4, 2014 failure of the tailings management facility dam.
- On May 19, 2016, the Environmental Assessment Office amended the EA Certificate for Mount Polley to increase the milling rate specified in the EA Certificate.
- EAO expects to receive a second application from MPMC to bring its EA Certificate up to date with its current permitted activity and operations, and change the process for considering future changes to the project. EAO is considering a review process that relies on the analysis and work undertaken during the *Mines Act* and *Environmental Management Act* permitting processes.
- This amendment would rectify a historical issue where changes to operations may not have been properly documented as non-material changes or consented to under the terms of the EA Certificate.
- On June 23, 2016, the Ministry of Energy and Mines advised EAO that MPMC's applications for the *Mines Act* permit amendments for the full restart of the mine did not include material alterations to the project that would require ministerial approval.
- On June 23, 2016, the Ministry of Energy and Mines issued a permit amendment to MPMC to allow the project to return to full production, which includes authorization to process up to 22,450 tonnes of ore per day and to use the repaired and strengthened tailings storage facility to manage tailings. .

Communications Contact:	Nicole Vinette	250 356-5311
Program Area Contact:	Shelley Murphy/Fern Stockman	250 387-1447 250 387-0394

Pizarro, Kirsten EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 9:11 AM
To: Vinette, Nicole EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: RE: Request: Mt Polley Mine Project - Revised IN for Review

Thanks very much, Nicole. I've made changes in the linked version.

K.

From: Vinette, Nicole EAO:EX
Sent: Wednesday, June 29, 2016 9:08 AM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Request: Mt Polley Mine Project - Revised IN for Review

Hi Kevin,

Please see the link below (or the attached version) of the revised Mt. Polley IN, which has been updated to reflect the recent re-start and the letter from MEM re: material alterations. The revised draft has been reviewed by Shelley, Paul and Cory, and I've left the track changes in the document in order to facilitate your review. If there's anything you'd like changed before I finalize it and send it to GCPE and the MO, please let me know. Thanks...

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Mt_Polley_Amendment_24Jun2016.docx

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO Environmental Assessment Office

Pizarro, Kirsten EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Wednesday, June 29, 2016 9:08 AM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Request: Mt Polley Mine Project - Revised IN for Review
Attachments: IN_EAO_Mt_Polley_Amendment_24Jun2016.docx

Hi Kevin,

Please see the link below (or the attached version) of the revised Mt. Polley IN, which has been updated to reflect the recent re-start and the letter from MEM re: material alterations. The revised draft has been reviewed by Shelley, Paul and Cory, and I've left the track changes in the document in order to facilitate your review. If there's anything you'd like changed before I finalize it and send it to GCPE and the MO, please let me know. Thanks...

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Mt_Polley_Amendment_24Jun2016.docx

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO Environmental Assessment Office

Page 0366 to/à Page 0367

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DUPLICATE

Pizarro, Kirsten EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Wednesday, June 29, 2016 9:08 AM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Request: Mt Polley Mine Project - Revised IN for Review
Attachments: IN_EAO_Mt_Polley_Amendment_24Jun2016.docx

Hi Kevin,

Please see the link below (or the attached version) of the revised Mt. Polley IN, which has been updated to reflect the recent re-start and the letter from MEM re: material alterations. The revised draft has been reviewed by Shelley, Paul and Cory, and I've left the track changes in the document in order to facilitate your review. If there's anything you'd like changed before I finalize it and send it to GCPE and the MO, please let me know. Thanks...

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Mt_Polley_Amendment_24Jun2016.docx

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

Page 0369 to/à Page 0370

Withheld pursuant to/removed as

DUPLICATE

Pizarro, Kirsten EAO:EX

From: Edquist, Kevin FLNR:EX
Sent: Wednesday, June 29, 2016 8:56 AM
To: Craven, Paul EAO:EX
Subject: FW: Guardian Program Development

From: Boyd Peters [mailto:Boyd.Peters@stsailes.com]
Sent: Tuesday, June 28, 2016 3:31 PM
To: Edquist, Kevin FLNR:EX
Cc: Harvey Paul
Subject: s.16

Kevin,

s.16

We look forward to further discussions with you.

Boyd Peters
Xoyet Thet
Rights and Title Manager
Sts'ailes
4690 Salish Way, Agassiz, B.C. V0M 1A1
tel. 604-796-2116 local 249
fax 604-796-3946
boyd.peters@stsailes.com



We Are The Land

Good afternoon to you all,

I am sure Tori and I will be in contact in the near future about some next steps.

Respectfully,

Janice George

Executive Assistant to Chief

Nauness

Sts'ailes

4690 Salish Way, Agassiz, BC V0M 1A1
Ph: 604 796 2116; Fax: 604 796 3946

Pizarro, Kirsten EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 8:42 AM
To: Craven, Paul EAO:EX; Waters, Cory EAO:EX
Subject: FW: prep for MABC/NRB meeting

FLNR are prepping for the MABC/NRB meeting on July 6th and they would like our top priorities for the mining industry by noon tomorrow. Can I get something by the end of the day so I can send it to Kevin for his input/approval. Please note they are looking for high level information. For more context please see the email chain below.

Kind regards,
S.

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 6:43 PM
To: Loiacono, Sabrina EAO:EX
Subject: Re: prep for MABC/NRB meeting

Yes, please, Sabrina. Based on our meeting with MABC they indicated an interest inwant discussing EPIC, but perhaps Paul will be able to confirm.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 6:40 PM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

> Hi Kevin,
>
> Please see the email below. In short FLNR are prepping for the MABC/NRB meeting and they would like our top priorities for the mining industry. Would you like me to Canvass Paul and Cory (who is acting)?
>
> Sent from my BlackBerry 10 smartphone on the TELUS network. Please excuse typos.
>
> ---
>
> **From:** Rousselle, Jillian FLNR:EX <Jillian.Rousselle@gov.bc.ca>
> **Sent:** Tuesday, June 28, 2016 4:52 PM
> **To:** French, Shawna ABR:EX; Barillaro, Scott W ENV:EX; De Champlain, Rhonda MEM:EX; Loiacono, Sabrina EAO:EX; Hodson, Georgina AGRI:EX
> **Subject:** prep for MABC/NRB meeting
>
> Hi,
>
> As you know, NRB and MABC are having their annual meeting next Thursday. In preparation for this, I have been asked to coordinate a list of NRS key priorities (for the mining industry) to be discussed. The idea is that each agency would bring forward their top priorities. There is only 30 mins allocated to this

discussion, so it will need to be very high-level. Can you please send me back your items by noon Thursday?

Thank you,

Jillian Rousselle
Director, Executive Operations
Deputy Minister's Office
Ministry of Forests, Lands and Natural Resource Operations
(250) 356-2700

Pizarro, Kirsten EAO:EX

From: Skwarok, Lindsey GCPE:EX
Sent: Wednesday, June 29, 2016 7:57 AM
To: Skwarok, Lindsey GCPE:EX
Subject: MNGD & MEM Media Watch - AM - Wednesday, June 29, 2016

TNO Focus on - AM
DO NOT FORWARD THIS E-MAIL TO ANYONE

Wednesday, June 29, 2016

Executive Summary

s.3

Page 0376 to/à Page 0525

Withheld pursuant to/removed as

s.3

Pizarro, Kirsten EAO:EX

From: Starks, Terri EAO:EX
Sent: Tuesday, June 28, 2016 6:34 PM
To: Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Carter, Rumon EAO:EX
Cc: Lawrence, Cheryl A EAO:EX
Subject: Follow-up from Executive meeting
Attachments: Expenditure restrictions corporate.docx

Hello,

Attached is the chart that was discussed at the Executive meeting. I have removed Operations Division as I haven't received their bullet on OT procedures and wanted to get this out to you before I left.

Cheers,

Terri

Page 0527 to/à Page 0528

Withheld pursuant to/removed as

s.13;s.17

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 5:47 PM
To: Parks, Chris EAO:EX
Cc: Cousins, Autumn EAO:EX
Subject: Red Chris

Hi Chris,

I talked to Nathaniel. All good. s.15 He is going to ask Diane to give you a call and fill you in.

Paul

Sent from my iPhone

Pizarro, Kirsten EAO:EX

From: Scraba, Erin H EAO:EX
Sent: Tuesday, June 28, 2016 5:14 PM
To: McDonald, Geoff L EAO:EX; Vinette, Nicole EAO:EX; Carter, Rumon EAO:EX; Bohn, Dominique EAO:EX; Braun, Nathan EAO:EX; Christie, Karen L EAO:EX; Craven, Paul EAO:EX
Subject: Updated web/epic guidance draft project charter for review and feedback
Attachments: ESM eguide team.docx

I think I captured the changes we discussed. I look forward to hearing the outcome of Rumon and Dom's discussions tomorrow and how this shapes the scope of work.

Nathan—after you left we clarified as a group that we'd look for ways to prioritize content that is, or is about to be in good shape (e.g.: amendments, exemptions, extensions, substantial start, fees, assessment reports). That content could be loaded into EPIC faster.

Erin Scraba
Manager, Legislation, Policy and Project Assessment
250-387-7412
Erin.Scraba@gov.bc.ca

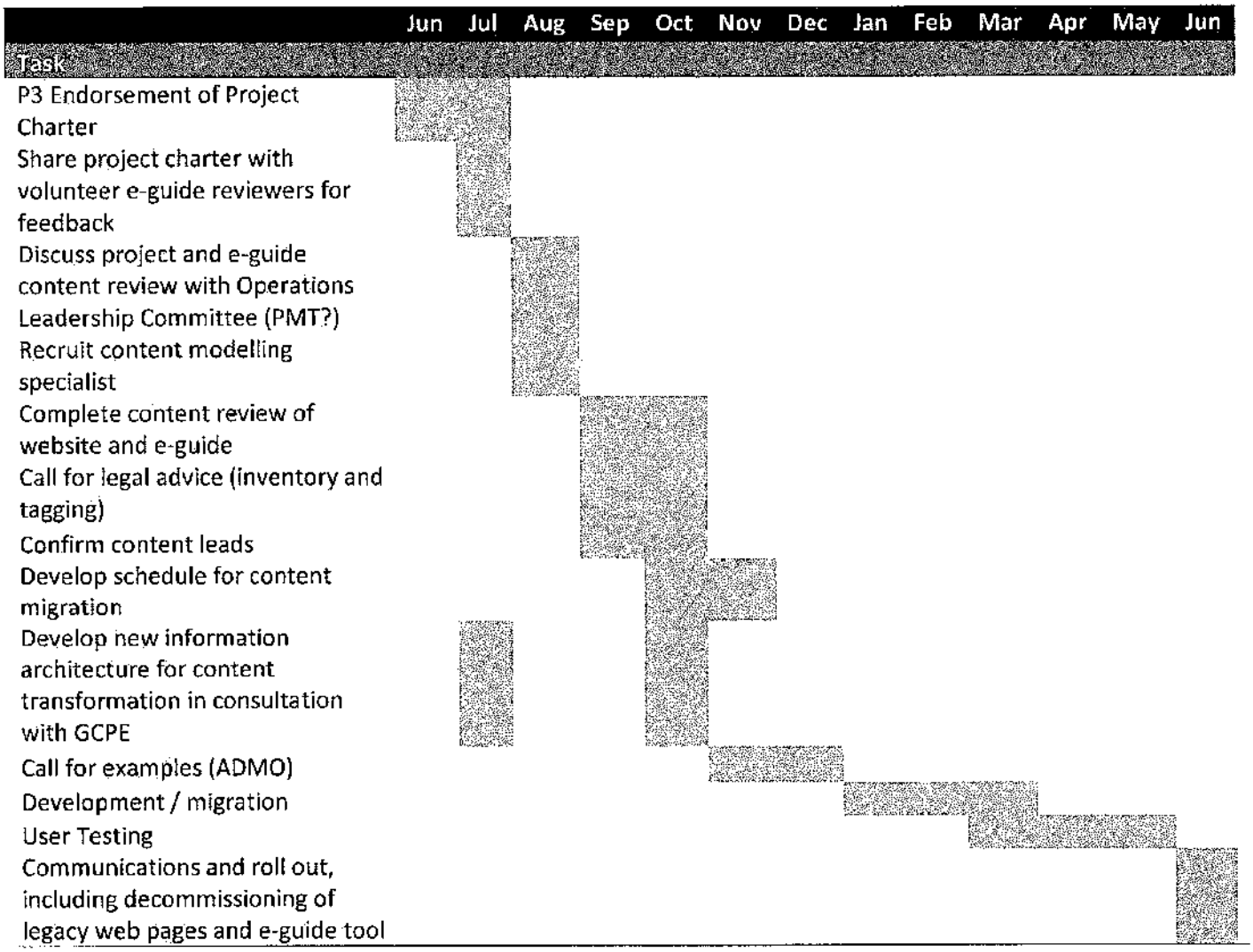
EAO | Environmental Assessment Office

Project Charter

Project Name	**Integrated electronic EAO guidance and procedures and web transformation**
Fiscal Year	2016/17
Completion Date	June 30, 2017
Project Lead	TBC
Steering Committee	Dominque Bohn, Paul Craven, Karen Christie, Nathan Braun, Rumon Carter, Nicole Vinette, Manager, Policy, Geoff McDonald
Goal	1) To replace legacy e-guide tool by integrating legal advice, staff procedures and templates into ESM 2) To modernize EAO website by approaching as content/data, and applying gov.bc.ca style standards
Strategic Plan Linkages	Goal #3: Design, build and implement ESM to improve the efficiency and transparency on the EA process Goal #4: Refresh guidance on key milestones of the EA process to enhance predictability for all participants
Objectives	Gov.bc.ca: • High level content about EAO • Portal to navigate to EPIC EPIC: • Create a searchable, permission-controlled resource for the public, staff [and working group members?] based on EA process milestones, sector-specific guidance, and core business requirements • Content will be prioritized for initial migration based on readiness assessment • Staff are able to make informed decisions prior to seeking legal advice and direction from EAO executive members • New resource can be easily maintained by staff

Deliverables	1. Recruit content specialist to support project 2. Content review / refresh for both current e-guide and current website **(initial e-guide analysis complete)** 3. Develop new information architecture for content transformation, in collaboration with GCPE 4. Develop inventory of existing legal advice 5. Identify content leads for topic areas (e.g. fees, training, aboriginal engagement...) 6. Develop schedule for content migration 7. Develop new resource 8. User Testing 9. Communications and roll out plan
Links and Dependencies	▪ EAO external website and content strategy ▪ Policy Status Health Report ▪ FN team work plan
Resources	▪ ESM team (Quartech, Geoff MacDonald, Nicole Del Raye, Leya Rennert May, Sheldon Foote) ▪ Volunteer e-guide reviewers (Mark Van Doorn, Chystal Fenton, Lindsay Walton, Alli Morrison): testing and examples (especially those vetted by ADMO) ▪ Sector leads ▪ Project leads and long service EAO staff ▪ Working group contacts? ▪ JAG solicitors ▪ First Nations Team

Work plan through Spring 2017



Approvals

	Date

Pizarro, Kirsten EAO:EX

From: Cousins, Autumn EAO:EX
Sent: Tuesday, June 28, 2016 4:37 PM
To: Black, Brenda EAO:EX; Scraba, Erin H EAO:EX; Craven, Paul EAO:EX
Cc: Vinette, Nicole EAO:EX
Subject: RE: DONE: EAC Policy items for release

s.14

From: Black, Brenda EAO:EX
Sent: Tuesday, June 28, 2016 2:14 PM
To: Scraba, Erin H EAO:EX; Cousins, Autumn EAO:EX; Craven, Paul EAO:EX
Cc: Vinette, Nicole EAO:EX
Subject: DONE: EAC Policy items for release

Autumn, Erin and Paul,

The complete EAC Policy, Abridged EAC Policy, What's New document and the EAC template are available in this folder for release: I:\EAO\EAO_SHARED\Compliance\Operational (ORCS)\Environmental Assessment - Policy Development 30010\20 EA policy development case files\EAC policy\June 2016 documents for release. All of the documents are available as PDF and word documents.

Erin,

I believe you are planning on sending the documents to industry and stakeholder groups on Thursday. Right now, as discussed, all the hyperlinks in the documents direct folks to the EAO's Guidance Documents webpage so we have the ability to post the documents now or after we receive any feedback that we may wish to incorporate.

Nicole spent some time improving the decision flow chart and ensuring that it was consistent with EAO branding (it looks amazing!). It now fits on one page and is legible when printed. If we receive any comments or concerns about the size of the decision flow chart in the policy I suggest we create a stand alone 11x17 copy of it and post that to the guidance documents website. We can then link to the larger image in the policies. I have not had any discussions with Nicole about when this content will be posted to the website, but I am assuming that we will be waiting to post the material until after we receive any feedback from industry and stakeholder groups. If this is incorrect and there is a desire to have this material posted when the material is sent out to industry and stakeholder groups on Thursday, please let Nicole know as soon as possible.

Thanks,

Brenda Black, A.Ag.
Compliance Officer

BC Environmental Assessment Office
Suite 325-1011 4th Avenue
Prince George, BC V2L 3H9
Phone: 250.960-0203
Fax: 250.565.6629

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 3:56 PM
To: Vinette, Nicole EAO:EX
Subject: Fwd: News story about Site C order

Sent from my iPhone

Begin forwarded message:

> **From:** "Black, Brenda EAO:EX" <Brenda.Black@gov.bc.ca>
> **Date:** June 28, 2016 at 3:01:43 PM PDT
> **To:** "Cousins, Autumn EAO:EX" <Autumn.Cousins@gov.bc.ca>, "Parks, Chris EAO:EX" <Chris.Parks@gov.bc.ca>
> **Cc:** "Craven, Paul EAO:EX" <Paul.Craven@gov.bc.ca>, "Vinette, Nicole EAO:EX" <Nicole.Vinette@gov.bc.ca>
> **Subject: News story about Site C order**
>
> In case you haven't seen this news story yet: http://www.alaskahighwaynews.ca/regional-news/site-c/bc-hydro-site-c-contractor-dinged-for-environmental-infractions-1.2288640
> **Brenda Black, A.Ag.**
> Compliance Officer
>
> ---
> **BC Environmental Assessment Office**
> Suite 325-1011 4th Avenue
> Prince George, BC V2L 3H9
> Phone: 250.960-0203
> Fax: 250.565.6629
>
> EAO Environmental Assessment Office
> http://www.eao.gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 3:46 PM
To: s.22
Subject:

Sent from my iPhone

Pizarro, Kirsten EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Tuesday, June 28, 2016 3:18 PM
To: Knudsen, Mark ENV:EX; Kapac de Frias, Martina E ENV:EX; Shiff, Alexander ENV:EX
Cc: Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
Subject: Taseko/ TNG letters

Hi Mark,

Please see the attached Taseko and TNG letters. Our plan is to send the Taseko letter tomorrow and the TNG letter on Thursday. Please see below for more details and let me know if you have any questions or concerns.

Wednesday:
The Taseko response will to go tomorrow morning with Laplante's letter as attachment.


esponse_13May201 Taseko lett...


2016 06 10 JP Laplante to EAO...

Thursday:
The TNG letter will to go Thursday morning with the Taseko letter as an attachment.


TNG_24June201...

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.


TNG_24June201...


esponse_13May201 Taseko lett...


2016 06 10 JP Laplante to EAO...

Page 0538 to/à Page 0550

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DUPLICATE

BRITISH COLUMBIA

File: 30200-25/PROS-19

Reference: 301630

June 28, 2016

J.P. Laplante
TNG Mining, Oil and Gas Manager
253-4th Avenue North
Williams Lake BC V2G 4T4
jlaplante@tsilhqotin.ca

Dear Mr. Laplante:

I am writing to follow up on the issues you raise in your letter, dated June 10, 2016, our discussions on June 8 and June 16, 2016, and the questions and requests in your letter of June 10, 2016 and in the email of June 23, 2016. I wish also to confirm the Environmental Assessment Office's (EAO) response to the requests from Taseko Mines Ltd (Taseko).

In recognition of the Province's reconciliation initiative with the Tsilhqot'in National Government (TNG), and as a part of EAO's efforts to enhance our engagement with Aboriginal Groups in our environmental assessment (EA) process, EAO reached out to TNG to make it aware of the request from Taseko to complete EAO's work to review Taseko's request to amend its Environmental Assessment Certificate (EAC) for the Prosperity Gold-Copper project.

First, I would like to confirm that on June 22, 2016, we provided to TNG by email both the May 13, 2016 letter that contains Taseko's request to complete the review of the amendment application, as per your request and the June 14, 2016 response from the office of the Assistant Deputy Attorney General at the Ministry of Justice. Attached also you will find a copy of EAO's response to Taseko.

I appreciate you sharing with me TNG's significant concerns about EAO reviewing Taseko's amendment application. It is important for us to hear from you regarding the negative impact you believe it will have on Tsilhqot'in Nation communities. I recognise also TNG's views on EAO's obligation to review the amendment and EAO's past statements in this regard.

...2

Environmental Assessment Office

Office of the Associate Deputy Minister

Mailing Address:
PO Box 9426 Stn Prov Govt
Victoria BC V8W 9V1

Location:
2nd Fl – 836 Yates St
Victoria BC V8W 1L8

I note that you specifically ask that EAO suspend its decision on whether to review the amendment application until TNG Chiefs and provincial Ministers have had the opportunity to discuss this matter at a leadership table. However, as I noted in our discussions, the provincial Ministers do not have the statutory authority to make this determination. That authority rests with me, as Executive Director under the *Environmental Assessment Act* (the Act), or my delegates.

Further, I note that your email of June 23, 2016 asks that EAO delay its decision on this matter to allow the relevant parties to explore the suggestion in the June 16, 2016 letter from Chief Alphonse and Chief William that the Province should "transfer control of these lands and waters over to Xeni Gwet'in and the Tsilhqot'in Nation", which you believe is consistent with Taseko's second option in its May 13, 2016 letter. While I appreciate your interest in exploring this option, this proposal lies well outside of the statutory mandate of EAO, and I do not consider this to change EAO's obligation to review Taseko's amendment application as per their May 13, 2016 letter.

I want to be clear that I acknowledge the concerns of TNG and take them very seriously. As per my commitment in our discussions, I have taken time to consider the TNG's views and concerns, and further explored EAO's powers and duties under the Act, and the requirements of administrative law, as they pertain to Taseko's request to proceed with their amendment application.

It is my conclusion that EAO is obligated to proceed to review Taseko's request for an amendment to its EAC at this time. That said, EAO does quite clearly have the discretion to consider the procedures and information needs necessary to ensure a comprehensive review of that application. We cannot, however, delay setting out the appropriate next steps in the review of this application. As noted below, EAO's first step before it can turn its mind to the proposing of a new procedure is to obtain responses from Taseko (and TNG, if it wishes to provide its views, as well as possibly other parties) to the items noted below.

In consideration of TNG's concern that EAO's decision to review Taseko's amendment application would represent a complete reversal of the position EAO took in 2014, I have reviewed the correspondence between EAO and Taseko on this matter. It is my view that my decision to proceed with the amendment review is entirely consistent with the position EAO took in 2014. Specifically, I note:

- EAO was very clear in both its July 14, 2014 and its October 15, 2014 correspondence that "... if and when the EAC extension is granted, EAO would be willing to consider the factors relevant at that time to determine the appropriate next steps with respect to the assessment of the proposed amendment". I note that EAO did not state that it would consider "whether" to

...3

review the amendment, but would consider "appropriate next steps". Given the extension was granted, EAO is now considering the appropriate next steps.

- In its October 2014 letter, in response to a concern from Taseko that EAO was delaying its decision on the amendment application pending the completion of the ongoing litigation in federal court, EAO responded that: "Your letter incorrectly states that EAO will not consider the amendment request until after the Federal Court litigation has completed". That is, EAO was not intending to delay the review of the amendment indefinitely for the proceedings of the federal court to conclude.
- In its July 30, 2014 letter Taseko asserts that EAO could proceed with an amendment decision quickly as it "had the information it requires, can consider the panel report, Taseko's responses to it ... and all relevant factors in rendering a decision". EAO responded in return correspondence dated October 2014 that it did not have the information it needed, given the legal challenges on the panel report and process, and that "EAO would need to design a new process that wasn't potentially relying on a report that could be considered a nullity or a process that was found to be procedurally unfair". Thus EAO was not declining to set up a new process at some point following the decision on the proposed EAC extension.
- Finally, in relation to EAO's comments that a reason for delaying the review of the amendment application was the fact that the project could not proceed without the federal approvals, EAO was in fact referencing the delay until after the extension decision had been taken, when EAO would determine appropriate next steps.

I note that in your letter you state that EAO's decision in 2014 to delay the review of the amendment application is evidence that EAO is not obligated to complete the review of the amendment application simply because Taseko has made the request. You also state that there is no reason to consider the amendment application because the Project cannot proceed without federal approval. In response, I offer the following:

- EAO has considered its obligations to review the amendment. The Act specifically requires that EAO must consider any amendment application made, and the general principles of administrative law would require EAO to review that application in a reasonable time. While EAO did exercise some discretion on the timing for review when the EAC extension request was under review (as in the absence of an extension, there would be no EAC to amend), it is my view that it would not be consistent with EAO's obligations to defer this review indefinitely.
- The fact that a project may have barriers, whether big or small, to overcome before it can be built does not allow EAO to decline to review an application or indefinitely defer review of an application until those barriers are addressed.

...4

Many major projects in British Columbia are subject to both provincial and federal approvals, each with its own constitutionally valid statutory and regulatory regime, not subject to paramountcy. In other words, provincial approvals do not depend on or require federal approvals to be valid.

As I note above, in light of the Minister of Environment's decision to extend the EAC until January 14, 2020, EAO is now considering the factors currently relevant to determining the appropriate next steps in the review of this amendment application. Some factors EAO has currently identified are:

- Nenqay Deni Accord: Commitments under section 12.42 of the Accord respecting improvements to the EA process.
- Timing of Taseko's ongoing litigation related to the federal panel report and process: EAO will be asking Taseko for a better understanding of when the federal court may rule on Taseko's petition. Should a decision be expected in the very near future, this may affect EAO's timing of the review.
- Nature of Taseko's challenge of the federal process: EAO would like to understand the extent to which documents or testimony that fed into the panel review may be impugned by the ongoing court proceedings, what information may still be used, and what new information will be required.
- Tailings Alternatives Assessment: Since Taseko's application for an amendment, EAO has established new requirements for all applications for conventional tailings storage facilities. This assessment will be required for EAO's assessment of the proposed amendment.
- Potential recommendations for new or amended EAC conditions under section 37 of the Act, as identified in the review of and decision on Taseko's EAC extension request.

As is evident in the attached letter, EAO has written to Taseko seeking additional information on the second to fourth bullets above, as well as seeking information on any additional work Taseko may have undertaken relevant to the amendment since the panel process concluded. EAO would welcome TNG's comments on any of these matters, or any other factors that the TNG considers may be relevant to setting out appropriate next steps.

I recognise that TNG is fundamentally opposed to EAO considering Taseko's amendment application, and has considerable concerns about the impact on the Tsilhqot'in Nation communities in participating in another assessment process for the Prosperity mine. I also recognize that EAO must fulfill the Crown's constitutional obligation to meaningfully consult and accommodate in relation to potential adverse effects of the proposed amendment, including addressing potential effects to Tsilhqotin Nation's proven Aboriginal rights in this area. EAO is committed to meeting that obligation.

...5

Furthermore, EAO is also committed to fulfilling the Province's commitment in the Accord. I wish to extend my most sincere offer to sit down with TNG to discuss options for setting out the appropriate process that, to the extent possible, recognizes and respects the past input TNG has provided, and is mindful of the burden another review places on the TNG and the community.

Please note that, in the interest of transparency, EAO will be sharing with Taseko our correspondence on this matter, as well as informing them of our discussion. At this time EAO has not yet had discussions with Taseko on this matter.

Please feel free to contact me at 250 356-7475, or Shelley Murphy, Executive Project Director by email at Shelley.Murphy@gov.bc.ca or by phone at 250 387-1447 if you wish to further discuss matters noted in this letter.

With very best regards,

Kevin Jardine
Associate Deputy Minister

Enclosure

cc: Chief Joe Alphonse, Tl'etinqox Tribal Chairman
Tsilhqot'in National Government
ChiefJoe@tletinqoxtin.ca

Chief Roger William, Xeni Gwet'in Vice Chair
Tsilhqot'in National Government
chief@xenigwetin.ca

Chief Ervin Charleyboy, Tsi Deldel Secretary
Tsilhqot'in National Government
ervin@tsideldel.org

Chief Bernie Mack, ?Esdilagh Treasurer
Tsilhqot'in National Government
tsilhqotin.seniya@gmail.com

...6

Chief Russell Ross, Yunetsit'in Government
Tsilhqot'in National Government
rmyersross@gmail.com

Crystal Verhaeghe, TNG Lead Negotiator and Special Advisor
Tsilhqot'in National Government
tng-director@tsilhqotin.ca

Michelle Carr, Assistant Deputy Minister
Environmental Assessment Office
Michelle.Carr@gov.bc.ca

Shelley Murphy, Executive Project Director
Environmental Assessment Office
Shelley.Murphy@gov.bc.ca

Pizarro, Kirsten EAO:EX

From: cpd@lsbc.org
Sent: Tuesday, June 28, 2016 2:33 PM
To: Craven, Paul EAO:EX
Subject: Continuing Professional Development ("CPD") Survey

****Please do not reply to this message. If you cannot properly receive HTML e-mails, go to: http://www.lawsociety.bc.ca/apps/broadcast/ntp.cfm?msg_id=1330&capvalue=pzxsz to view this message. Please add cpd@lsbc.org to your address book or to your safe list in your mail settings to ensure delivery to your Inbox.



s.22

Pizarro, Kirsten EAO:EX

From: Kapac de Frias, Martina E ENV:EX
Sent: Tuesday, June 28, 2016 2:18 PM
To: Karn, David GCPE:EX
Cc: GCPE Communications - Environment; Shoemaker, Wes ENV:EX; Vinette, Nicole EAO:EX; Craven, Paul EAO:EX; Knudsen, Mark ENV:EX; Shiff, Alexander ENV:EX; Gordon, Matt GCPE:EX; Haslam, David GCPE:EX; Dalal, Suntanu GCPE:EX
Subject: Re: Media request - Alaska Hwy News - Site C compliance

Approved. Mark K - pls share with MEM MO

On Jun 28, 2016, at 2:16 PM, Karn, David GCPE:EX <David.Karn@gov.bc.ca> wrote:

> Yes and shared with Hydro.
>
> **From:** Kapac de Frias, Martina E ENV:EX
> **Sent:** Tuesday, June 28, 2016 2:12 PM
> **To:** Karn, David GCPE:EX
> **Cc:** GCPE Communications - Environment; Shoemaker, Wes ENV:EX; Vinette, Nicole EAO:EX; Craven, Paul EAO:EX; Knudsen, Mark ENV:EX; Shiff, Alexander ENV:EX; Gordon, Matt GCPE:EX; Haslam, David GCPE:EX; Dalal, Suntanu GCPE:EX
> **Subject:** Re: Media request - Alaska Hwy News - Site C compliance
> Has MEM reviewed?
>
> On Jun 28, 2016, at 1:30 PM, Karn, David GCPE:EX <David.Karn@gov.bc.ca> wrote:
>
> > Martina,
> > Just waiting on MEM review as seeking to hit deadline.
> > EAO approved.
> >
> > Reporter: Zoe Ducklow, AHN reporter@ahnfsj.ca
> >
> > Deadline: 2pm
> >
> > Request: questions about the warnings you issued to BC Hydro regarding Site C.
> >
> > Firstly, I just want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks? Is this warning issued because they've failed to have procedures in place, or because there have been hydrocarbon spills that were poorly dealt with? And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?
> >
> > Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?
> >
> > Suggested response:

want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks?

- EAO C&E Officers observed hazardous waste, hydrocarbon contaminated waste, recyclables, and domestic waste mixed together in single bins. Lack of segregation of waste and recyclables leads to the improper disposal of waste, including hydrocarbon contaminated waste and hazardous waste, in area landfills contrary to project requirements and the*Environmental Management Act* (the Act).
- EAO C&E Officers also observed numerous vehicles and equipment leaking hydrocarbon to ground, and hydrocarbon spills that had not been cleaned up as required. Failure to clean up and properly dispose of spilled or leaked hydrocarbons leads to contaminated soil and water.
- The hydrocarbon leaks were from construction equipment, and include engine oil and hydraulic oil, and grease. No gasoline was identified.

And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

- The waste management Order requires that BC Hydro segregate all waste types (which includes domestic waste, hydrocarbon-contaminated material, and hazardous waste) and recyclables in clearly marked receptacles and conduct daily monitoring.
- The hydrocarbon management Order requires that BC Hydro:
    - conduct daily monitoring of vehicles, equipment, and storage areas to identify hydrocarbon leaks; and
    - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.
- BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.
- A copy of the Environmental Assessment Office's Compliance and Enforcement Policy is available online athttp://www.eao.gov.bc.ca/files/c&e/EAO_Compliance_Policy_%20Procedure_v6_20150720.pdf

Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

- The Environmental Assessment Office will undertake another inspection (no specific date has been set yet) to determine whether the measures in the order have been carried out.

- If there is continued non-compliance, the Environmental Assessment Office would consider all the relevant factors to determine whether to exercise its authority under the *Environmental Assessment Act* to proceed with additional enforcement.

Pizarro, Kirsten EAO:EX

From: Black, Brenda EAO:EX
Sent: Tuesday, June 28, 2016 2:14 PM
To: Scraba, Erin H EAO:EX; Cousins, Autumn EAO:EX; Craven, Paul EAO:EX
Cc: Vinette, Nicole EAO:EX
Subject: DONE: EAC Policy items for release

Autumn, Erin and Paul,

The complete EAC Policy, Abridged EAC Policy, What's New document and the EAC template are available in this folder for release: I:\EAO\EAO_SHARED\Compliance\Operational (ORCS)\Environmental Assessment - Policy Development 30010\20 EA policy development case files\EAC policy\June 2016 documents for release. All of the documents are available as PDF and word documents.

Erin,

I believe you are planning on sending the documents to industry and stakeholder groups on Thursday. Right now, as discussed, all the hyperlinks in the documents direct folks to the EAO's Guidance Documents webpage so we have the ability to post the documents now or after we receive any feedback that we may wish to incorporate.

Nicole spent some time improving the decision flow chart and ensuring that it was consistent with EAO branding (it looks amazing!). It now fits on one page and is legible when printed. If we receive any comments or concerns about the size of the decision flow chart in the policy I suggest we create a stand alone 11x17 copy of it and post that to the guidance documents website. We can then link to the larger image in the policies. I have not had any discussions with Nicole about when this content will be posted to the website, but I am assuming that we will be waiting to post the material until after we receive any feedback from industry and stakeholder groups. If this is incorrect and there is a desire to have this material posted when the material is sent out to industry and stakeholder groups on Thursday, please let Nicole know as soon as possible.

Thanks,

Brenda Black, A.Ag.
Compliance Officer

BC Environmental Assessment Office
Suite 325-1011 4th Avenue
Prince George, BC V2L 3H9
Phone: 250.960-0203
Fax: 250.565.6629

EAO Environmental Assessment Office
http://www.eao.gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Kapac de Frias, Martina E ENV:EX
Sent: Tuesday, June 28, 2016 2:12 PM
To: Karn, David GCPE:EX
Cc: GCPE Communications - Environment; Shoemaker, Wes ENV:EX; Vinette, Nicole EAO:EX; Craven, Paul EAO:EX; Knudsen, Mark ENV:EX; Shiff, Alexander ENV:EX; Gordon, Matt GCPE:EX; Haslam, David GCPE:EX; Dalal, Suntanu GCPE:EX
Subject: Re: Media request - Alaska Hwy News - Site C compliance

Has MEM reviewed?

On Jun 28, 2016, at 1:30 PM, Karn, David GCPE:EX <David.Karn@gov.bc.ca> wrote:

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> Reporter: Zoe Ducklow, AHN reporter@ahnfsj.ca
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Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 2:03 PM
To: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Fwd: Roberts Bank

Meant to cc you.

Sent from my iPhone

Begin forwarded message:

> **From:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> **Date:** June 28, 2016 at 1:48:22 PM PDT
> **To:** "Craven, Paul EAO:EX" <Paul.Craven@gov.bc.ca>
> **Subject: RE: Roberts Bank**
>
> Excellent, thx, Paul. I appreciate the update and am glad to hear that the Panel recognises the positive role we've been playing (assuming that's not going too far).
>
> -----Original Message-----
> From: Craven, Paul EAO:EX
> Sent: Tuesday, June 28, 2016 1:46 PM
> To: Jardine, Kevin EAO:EX
> Subject: Roberts Bank
>
> Hi Kevin,
>
> We have just finished presenting to the panel. All went well. A couple of questions. The panel has clearly heard our message and acknowledged the coordination efforts required in such a short time frame.
>
> Monica, David and Kate did a great job in ensuring I was prepared and the process is running smoothly. Ministries are up now for the rest of the afternoon.
>
> Paul
>
> Sent from my iPhone

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 2:02 PM
To: Perry, Monica EAO:EX
Subject: Re: Compliance

Not sure what they mean. We coordinate enforcement based on who is the best places regulator that could be us or MOE depending.

Sent from my iPhone

> On Jun 28, 2016, at 1:50 PM, Perry, Monica EAO:EX <Monica.Perry@gov.bc.ca> wrote:
>
> Are we tier one law enforcement? They asked mark about moe compliance.
>
> Sent from my iPhone

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 1:46 PM
To: Jardine, Kevin EAO:EX
Subject: Roberts Bank

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Paul

Sent from my iPhone

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 1:42 PM
To: Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX
Subject: Fwd: LEAN BC Transition to Red Tape Reduction Initiative
Attachments: Transition of LeanBC; ATT00001.htm; Transition of LeanBC Office to Regulatory Reform Branch; ATT00002.htm; Update on LeanBC Transition to SBRT; ATT00003.htm

FYI.

Sent from my iPhone

Begin forwarded message:

From: "Standen, Jim ENV:EX" <Jim.Standen@gov.bc.ca>
Date: June 28, 2016 at 12:45:31 PM PDT
To: "Zacharias, Mark ENV:EX" <Mark.Zacharias@gov.bc.ca>, "Downie, AJ ENV:EX" <AJ.Downie@gov.bc.ca>, "Lasuik, Jason ENV:EX" <Jason.Lasuik@gov.bc.ca>, "Vander Steen, Benjamin ENV:EX" <Benjamin.VanderSteen@gov.bc.ca>, "Barillaro, Scott W ENV:EX" <Scott.Barillaro@gov.bc.ca>, "Jonker, Jennifer B ENV:EX" <Jennifer.Jonker@gov.bc.ca>, "Ranson, David ENV:EX" <David.Ranson@gov.bc.ca>, "Quayle, James F ENV:EX" <James.Quayle@gov.bc.ca>, "Grant, Jennifer ENV:EX" <Jennifer.Grant@gov.bc.ca>, "Austad, Bob ENV:EX" <Bob.Austad@gov.bc.ca>, "Williamson, Susanne A ENV:EX" <Susanne.Williamson@gov.bc.ca>, "Spence, Suzanne ENV:EX" <Suzanne.Spence@gov.bc.ca>, "Maslany, Orest J ENV:EX" <Orest.Maslany@gov.bc.ca>, "Elder, Britney ENV:EX" <Britney.Elder@gov.bc.ca>, "Craven, Paul EAO:EX" <Paul.Craven@gov.bc.ca>, "Scraba, Erin H EAO:EX" <Erin.Scraba@gov.bc.ca>, "White, Ted T ENV:EX" <Ted.White@gov.bc.ca>, "Kriwoken, Lynn ENV:EX" <Lynn.Kriwoken@gov.bc.ca>, "Tyson, Greg ENV:EX" <Greg.Tyson@gov.bc.ca>, "Neale, Tina ENV:EX" <Tina.Neale@gov.bc.ca>
Cc: "Ross, Carmen L ENV:EX" <Carmen.Ross@gov.bc.ca>, "Standen, Jim ENV:EX" <Jim.Standen@gov.bc.ca>
Subject: LEAN BC Transition to Red Tape Reduction Initiative

Lean Project Champions, Sponsors and Leads:
By now many of you may have seen this article on @Work regarding the recent move to bring the resources from LEAN BC into the Red Tape Reduction Initiative. Attached below are the emails we received from the Lean BC Office and the Regulatory Reform Office on this change.
The NRS LEAN Steering Committee recently had the opportunity to speak with folks from the Red Tape Reduction Initiative and came away from that call reassured that the corporate LEAN training and supports will largely continue, with the exception of external contract support which will not continue – this is in keeping with the LEAN program move away from contracted support and towards development of internal expertise which has been our focus for the last couple of years.
That said, it is early days and many questions remain on what this change implies for the Lean initiative across government.
I want you to know, that while this may have some longer term impacts at a corporate level, as a ministry we will continue to support our Lean projects and advanced practitioners and continue to be committed to the Lean methodologies and principles.

We must continue to implement improvements to ensure we realize the value of the great work done to date, provide better service to our clients and improve the day-to-day work of our staff.
If you have any questions or concerns regarding this change, feel free to contact myself or Carmen Ross.
Jim Standen

Pizarro, Kirsten EAO:EX

From: Sparks, Colleen HLTH:EX
Sent: Wednesday, May 25, 2016 4:46 PM
To: Lean Leads and Designates
Subject: Transition of LeanBC

Dear Lean Leads,

It was announced today that LeanBC staff are transitioning from the BC Public Service Agency to the Ministry of Small Business and Red Tape Reduction effective June 1, 2016. This re-alignment is a natural progression for our team, as they have always advocated for a focus on true value for our clients and customers – ultimately the citizens of BC. Going forward the team will focus on supporting ministries with service improvements that directly address irritants identified by citizens under the Reducing Red Tape for British Columbians initiative, which is a priority for Government.

We have been very impressed with the level of expertise growing in ministries. This last year, we saw ministries undertake a 20% increase in projects with a 39% reduction in reliance on external contractors. Estimated combined savings are $27 million. We have seen incredible results from standard processes projects and from the 465 small Lean Where You Work improvements that saved an equivalent of 17 FTE last year – proving that small savings do add up. Ministry staff are thinking and acting Lean. Given this integration and the results, as expected, Lean will no longer be a hold back measure. Ministries are encouraged to maintain capacity to lead and measure service improvements to meet business priorities.

I want to thank all of you for your ideas, commitment and support to help us collectively reach this milestone. I also want to recognize the LeanBC team for their passion, teamwork and innovative thinking. Lean has proven an effective methodology that has engaged our staff and led to meaningful improvements for our customers and clients across government. On that note, we will send out an invite shortly for a small celebration event to recognize this milestone.

You can expect to hear more from Francois Bertrand, Executive Director, Regulatory Reform Branch about how this division will work with ministries going forward to support red tape reduction initiatives across the system.

Best regards,

Colleen Sparks and the LeanBC Team

Pizarro, Kirsten EAO:EX

From: Bertrand, Francois SBRT:EX
Sent: Thursday, June 23, 2016 10:55 AM
To: Alvear, Adriana MTIC:EX; Baillie, Shannon CSCD:EX; Bartel, Suzanne MTIC:EX; Beardmore, Heather AVED:EX; Bridges, Richele I AVED:EX; Brownrigg, Caitlin PSA:EX; Craig, Carly PSA:EX; Davidson, Andy MCF:EX; Fabbri, Claudia M IGRS:EX; Fletcher, Jason SDSI:EX; Forman, Ryan MEM:EX; Gibbs, Margaret A JAG:EX; Godfrey, Debbie HLTH:EX; Hall, Cheryl JAG:EX; Hubackova, Dana PSA:EX; Huey, Christina PSA:EX; Irwin, Michelle A FLNR:EX; Iwanow, Melanie FLNR:EX; Jensen, Chris A CSCD:EX; Jmaiff, Marcella SDSI:EX; Jones, Lisa FLNR:EX; Jones, Steven PSA:EX; Justesen, Renee PSA:EX; Kearsey, Stephen PSA:EX; Kersten, Karina AGRI:EX; MacKay, Tanya L PSA:EX; Marchesan, John PSA:EX; McLean, Gordon FIN:EX; Medgyesi, Mark S SDSI:EX; Mercier, Veronique IGRS:EX; Miller, Christopher R PSA:EX; Mullane, Aleta HLTH:EX; Mullen, Shannon CSCD:EX; Nankivell, Nathan MIT:EX; Nixon, Nicholas TRAN:EX; Pack, Lynn R PSA:EX; Pratt, Susan M SBRT:EX; Ralph, Jeff ABR:EX; Reid, Alina L EDUC:EX; Remacle, Danton CSNR:EX; Ross, Carmen L ENV:EX; Ryall, Jody AGRI:EX; Shaw, Beverley EDUC:EX; Shorter, Richele HLTH:EX; Tanaka, Kashi FIN:EX; Thickens, Melissa TRAN:EX; XT:Maloney Sara AG:IN; Yee, Susanna E MTIC:EX
Cc: Little, Christine SBRT:EX; Shah, Jesal SBRT:EX; Sovka, Roseanne SBRT:EX; Albrecht, Christine SBRT:EX; Pack, Lynn R PSA:EX
Subject: Update on LeanBC Transition to SBRT
Attachments: FAQs for Lean Leads and Designates June 22 2016.docx

Lean Leads and Designates:

Further to my last communication, I am writing to share an update on the transition of LeanBC to SBRT and to provide answers to some of your questions about the meaning of the realignment for you and your ministries.

The LeanBC Unit joined to the Red Tape Reduction Branch on Wednesday, June 1st. Having gone through staffing changes over the past 4 months, the Unit includes the following members:

- Renee Justesen, Acting Director, LeanBC Unit;
- Christopher Miller, Lean Consultant;
- Caitlin Brownrigg, Lean Consultant;
- Dana Hubachova, Senior Lean Advisor;
- Christina Huey, Lean Analyst;
- Lynn Pack, Program Coordinator.

Since joining the Regulatory Reform Branch, the LeanBC Unit has continued to support capacity-building within ministries through group training as well as one-on-one coaching sessions. The Unit has also continued to support ministries in implementing process improvements through Lean facilitation and other dedicated supports.

In a parallel track, the LeanBC Unit has participated in a number of planning sessions with the Regulatory Reform Unit – to explore synergies between the portfolios and identify ways in which the teams can work together more closely to enhance service delivery for British Columbians. One takeaway from these sessions is that the LeanBC network is already contributing to red tape reduction – through leveraging LeanBC methodologies to improve service delivery while achieving important operational efficiencies. Another takeaway is that LeanBC processes can add value to Ministry

efforts to address red tape irritants identified by British Columbians through the Reducing Red Tape for British Columbians initiative.

Over the coming weeks, we will undertake a process to refresh the LeanBC strategic framework, to ensure the program continues to meet the needs and expectations of Ministries while supporting Government's red tape reduction priorities. We will reach out to your Ministry throughout that process, with an aim of releasing a refreshed framework in early fall.

In the meantime, the team and I have fielded several questions from Lean Leads and Practitioners. The attached document addresses most of these questions. Some key points to clarify are:

- Ministries are encouraged to continue to leverage LeanBC methodologies, tools and supports to improve services for British Columbians.
- While lean is no longer an executive holdback measure, ministries are encouraged to continue to work towards key performance indicators relating to training and savings, provided these add value to their business.
- Lean training scheduled through the Learning Center will continue as planned. This includes Lean 401 and 402 training and coaching, which is committed for the rest of the 2016/17 fiscal year.
- Lean databases should continue to be used by ministries to track Lean Where you Work as well as complex Lean Projects.
- The Lean BC SharePoint will continue to host Lean tools, templates and other useful information to support business process improvements across ministries.
- The Lean Network for Advanced Practitioners will continue to provide training and mentoring opportunities.

I trust this update is helpful and addresses some of your burning questions relating to the transition. Do not hesitate to reach out if you have any questions or concerns.

Best regards,
Francois

Francois Bertrand
Executive Director, Regulatory Reform
Small Business and Red Tape Reduction
Phone: 604-660-2759
Cell: 250-415-1970

FAQs for Lean Leads and Designates
June 22, 2016

Is Lean no longer a priority?

The Lean initiative has proven to be effective and with over 200 skilled advanced practitioners across ministries, it is expected that ministries will continue to improve priority services through Lean – with a focus on improvements that improve service delivery for clients and address red tape irritants identified by British Columbians.

Are ministries expected to meet their Lean KPIs? Are ministries expected to achieve a mature Lean culture by 2018/19?

Ministries have KPIs related to training, savings and embedding a Lean culture. These are no longer executive holdback measures, however, ministries are encouraged to continue with their Lean goals and projects, especially those that address red tape irritants uncovered through the Reducing Red Tape for British Columbians initiative.

Do I have to free up staff to take Lean training?

The Lean methodology is a proven skill set that has delivered efficiencies while allowing government to better serve British Columbians. Ministries are encouraged to promote Lean training opportunities to their staff, to maintain and develop capacity to support continuous improvement projects that enhance British Columbians' access to government services.

What level of training support can ministries expect from the Lean BC Unit?

The Lean BC Unit will continue to deliver training to support Lean capacity. Over 80 training sessions are planned between now and the end of the fiscal year. This training can be accessed through the Learning Center. The LeanBC team will also continue to mentor and train Lean Advanced Practitioners to deliver Lean 201B, 301 and 302 training for their ministries.

What level of support can Lean Advanced Practitioners expect from the LeanBC Unit?

LeanBC will continue to formally coach Lean 401 students, and informally coach Lean 402 students. The Lean Advanced Practitioners Network supports the ongoing professional development of Advanced Practitioners, and the development of a mature Lean culture. We are currently organizing a community mentoring program to share learnings about lean leadership, and discuss successes and challenges.

Recently, LeanBC led the Lean 401/402 Intake Project to improve the intake process for Students, Supervisors and Lean Leads. In the coming weeks, information on the improved process will be sent to Lean Leads in preparation for the Fall 2016 sessions.

Will regional training still be available?

FAQs for Lean Leads and Designates
June 22, 2016

As in the past, the LeanBC Team will provide regional training on an ad hoc basis. LeanBC encourages training delivery by Lean Advanced Practitioners, and provides mentoring and training to those wanting to deliver Lean 201B, 301 and 302 to their regional colleagues.

What level of consulting support can ministries expect from the LeanBC Unit?

The LeanBC Unit will continue to provide consultation on project selection, Lean portfolios and Lean best practices.The model of consulting may be adapted to reflect staffing changes and accommodate a new focus on red tape reduction – which remains a priority for all ministries.

Providing Lean expertise under the direction of Renee Justesen are Lean Consultants Christopher Miller and Caitlin Brownrigg, who are supported by Dana Hubachova, Senior Lean Advisor, Christina Huey, Lean Analyst and Lynn Pack, Program Coordinator.

What project support can ministries expect from the Lean BC Unit?

The LeanBC Unit will continue to consult on Lean projects, with a focus on projects that streamline services to the public and reduce red tape.

Can my ministry still access external contractors to support continuous improvement?

Ministries are encouraged to assign staff to support priority improvements or to request assistance from LeanBC staff for complex projects.

To reflect the decline in LeanBC budget for contractor spend over the past few years, revised parameters to assess requests for LeanBC funded contractors will be developed over the summer. The framework will include considerations for ongoing projects, to allow critical improvements already under way to be completed.

Will we still have to do Standard Process Projects?

While Standard Process Projects (onboarding, FOI, contracts, accounts payable and correspondence) are no longer mandatory projects, it is still good practice to find increased efficiencies through process improvements.Ministries pursuing improvements in these areas are encouraged to review past Lean projects to gain insight and identify best practices.

Will we be reporting on actual or projected savings?

With the maturity of the program, LeanBC has been moving towards tracking and reporting on actual savings derived from process improvements.

FAQs for Lean Leads and Designates
June 22, 2016

As part of the transition to SBRT, LeanBC will be reviewing current databases and performance measures, with a view to ensuring the right data are tracked. Please continue use the databases to track your project progress and results.

Page 0575 to/à Page 0579

Withheld pursuant to/removed as

DUPLICATE

Pizarro, Kirsten EAO:EX

From: Campbell, Fiona SBRT:EX
Sent: Tuesday, May 31, 2016 1:08 PM
To: Lean Leads and Designates
Cc: Bertrand, Francois SBRT:EX; Sparks, Colleen HLTH:EX; Justesen, Renee PSA:EX; Miller, Christopher R PSA:EX; Brownrigg, Caitlin PSA:EX; Hubackova, Dana PSA:EX; Huey, Christina PSA:EX; Pack, Lynn R PSA:EX
Subject: Transition of LeanBC Office to Regulatory Reform Branch

Dear Lean Leads and Designates,

I wanted to send a short note to introduce myself prior to the transition of the Lean BC team to the Red Tape Reduction Branch on Wednesday, June 1st.

I know that many of you have planned projects and are allocating resources for training right now. I wanted to assure you that commitments that LeanBC has made regarding projects and training over the coming months will be honoured.

Red Tape Reduction is focused on streamlining government processes and services for citizens and businesses – this can be achieved via the use of technology, changes to legislation or policy and by getting rid of the wasted time and effort in our business processes. Many of the improvements showcased in our annual and other reports reflect the excellent work you and your teams have undertaken over the last few years.

Over the coming weeks, you can expect to hear more from me and other members of the LeanBC team on opportunities enabled by the transition. There is a huge opportunity for us to work together to tackle red tape and continue to generate benefits for the people of BC.

Do not hesitate to reach out if you have any questions or concerns.

Best regards,
Francois

Francois Bertrand
Executive Director, Regulatory Reform
Small Business and Red Tape Reduction
Phone: 604-660-2759
Cell: 250-415-1970

Pizarro, Kirsten EAO:EX

From: Kam, David GCPE:EX
Sent: Tuesday, June 28, 2016 1:30 PM
To: Kapac de Frias, Martina E ENV:EX
Cc: GCPE Communications - Environment; Shoemaker, Wes ENV:EX; Vinette, Nicole EAO:EX; Craven, Paul EAO:EX; Knudsen, Mark ENV:EX; Shiff, Alexander ENV:EX; Gordon, Matt GCPE:EX; Haslam, David GCPE:EX; Dalal, Suntanu GCPE:EX
Subject: Media request - Alaska Hwy News - Site C compliance

Martina,
Just waiting on MEM review as seeking to hit deadline.
EAO approved.

Reporter: Zoe Ducklow, AHN reporter@ahnfsj.ca

Deadline: 2pm

Request: questions about the warnings you issued to BC Hydro regarding Site C.

Firstly, I just want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks? Is this warning issued because they've failed to have procedures in place, or because there have been hydrocarbon spills that were poorly dealt with? And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

Suggested response:

want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks?

- EAO C&E Officers observed hazardous waste, hydrocarbon contaminated waste, recyclables, and domestic waste mixed together in single bins. Lack of segregation of waste and recyclables leads to the improper disposal of waste, including hydrocarbon contaminated waste and hazardous waste, in area landfills contrary to project requirements and the*Environmental Management Act* (the Act).
- EAO C&E Officers also observed numerous vehicles and equipment leaking hydrocarbon to ground, and hydrocarbon spills that had not been cleaned up as required. Failure to clean up and properly dispose of spilled or leaked hydrocarbons leads to contaminated soil and water.
- The hydrocarbon leaks were from construction equipment, and include engine oil and hydraulic oil, and grease. No gasoline was identified.

And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

- The waste management Order requires that BC Hydro segregate all waste types (which includes domestic waste, hydrocarbon-contaminated material, and hazardous waste) and recyclables in clearly marked receptacles and conduct daily monitoring.
- The hydrocarbon management Order requires that BC Hydro:
    - conduct daily monitoring of vehicles, equipment, and storage areas to identify hydrocarbon leaks; and
    - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.
- BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.
- A copy of the Environmental Assessment Office's Compliance and Enforcement Policy is available online athttp://www.eao.gov.bc.ca/files/c&e/EAO_Compliance_Policy_%20Procedure_v6_20150720.pdf

Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

- The Environmental Assessment Office will undertake another inspection (no specific date has been set yet) to determine whether the measures in the order have been carried out.
- If there is continued non-compliance, the Environmental Assessment Office would consider all the relevant factors to determine whether to exercise its authority under the *Environmental Assessment Act* to proceed with additional enforcement.

Pizarro, Kirsten EAO:EX

From: Gilmour, Lori ENV:EX on behalf of Standen, Jim ENV:EX
Sent: Tuesday, June 28, 2016 12:46 PM
To: Zacharias, Mark ENV:EX; Downie, AJ ENV:EX; Lasuik, Jason ENV:EX; Vander Steen, Benjamin ENV:EX; Barillaro, Scott W ENV:EX; Jonker, Jennifer B ENV:EX; Ranson, David ENV:EX; Quayle, James F ENV:EX; Grant, Jennifer ENV:EX; Austad, Bob ENV:EX; Williamson, Susanne A ENV:EX; Spence, Suzanne ENV:EX; Maslany, Orest J ENV:EX; Elder, Britney ENV:EX; Craven, Paul EAO:EX; Scraba, Erin H EAO:EX; White, Ted T ENV:EX; Kriwoken, Lynn ENV:EX; Tyson, Greg ENV:EX; Neale, Tina ENV:EX
Cc: Ross, Carmen L ENV:EX; Standen, Jim ENV:EX
Subject: LEAN BC Transition to Red Tape Reduction Initiative

Importance: High

Lean Project Champions, Sponsors and Leads:

By now many of you may have seen this article on @Work regarding the recent move to bring the resources from LEAN BC into the Red Tape Reduction Initiative. Attached below are the emails we received from the Lean BC Office and the Regulatory Reform Office on this change.

The NRS LEAN Steering Committee recently had the opportunity to speak with folks from the Red Tape Reduction Initiative and came away from that call reassured that the corporate LEAN training and supports will largely continue, with the exception of external contract support which will not continue – this is in keeping with the LEAN program move away from contracted support and towards development of internal expertise which has been our focus for the last couple of years.

That said, it is early days and many questions remain on what this change implies for the Lean initiative across government.

I want you to know, that while this may have some longer term impacts at a corporate level, as a ministry we will continue to support our Lean projects and advanced practitioners and continue to be committed to the Lean methodologies and principles.

We must continue to implement improvements to ensure we realize the value of the great work done to date, provide better service to our clients and improve the day-to-day work of our staff.

If you have any questions or concerns regarding this change, feel free to contact myself or Carmen Ross.

Jim Standen


Transition of LeanBC


Transition of LeanBC Office t...


Update on LeanBC Transiti...

Page 0584 to/à Page 0590

Withheld pursuant to/removed as

DUPLICATE

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 12:15 PM
To: Vinette, Nicole EAO:EX
Subject: Re: media request - Alaska Hwy News - Site C compliance - For Review - 1pm Deadline

Approved. This can go straight to Kevin as it is C&E.

Sent from my iPhone

On Jun 28, 2016, at 11:44 AM, Vinette, Nicole EAO:EX <Nicole.Vinette@gov.bc.ca> wrote:

> Hi Paul,
> Please see below for a draft response to the media request from the Alaska Hwy News re: Site C. I sent it to both Autumn and Chris for review, and Chris provided comments. If you see anything that you'd like changed before it goes to Cory and then to Kevin for review, please let me know. Just a reminder that we're working with a 1pm deadline on this one. Thanks!
> ~Nicole
> Suggested response:
> **want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks?**
>
> - EAO C&E Officers observed hazardous waste, hydrocarbon contaminated waste, recyclables, and domestic waste mixed together in single bins. Lack of segregation of waste and recyclables leads to the improper disposal of waste, including hydrocarbon contaminated waste and hazardous waste, in area landfills contrary to project requirements and the *Environmental Management Act* (the Act).
> - EAO C&E Officers also observed numerous vehicles and equipment leaking hydrocarbon to ground, and hydrocarbon spills that had not been cleaned up as required. Failure to clean up and properly dispose of spilled or leaked hydrocarbons leads to contaminated soil and water.
> - The hydrocarbon leaks were from construction equipment, and include engine oil and hydraulic oil, and grease. No gasoline was identified.
>
> **And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?**
>
> - The waste management Order requires that BC Hydro segregate all waste types (which includes domestic waste, hydrocarbon-contaminated material, and hazardous waste) and recyclables in clearly marked receptacles and conduct daily monitoring.
> - The hydrocarbon management Order requires that BC Hydro:
>   - conduct daily monitoring of vehicles, equipment, and storage areas to identify hydrocarbon leaks; and
>   - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.
> - BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.

- A copy of the Environmental Assessment Office's Compliance and Enforcement Policy is available online at http://www.eao.gov.bc.ca/files/c&e/EAO_Compliance_Policy_%20Procedure_v6_20150720.pdf

Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

- The Environmental Assessment Office will undertake another inspection (no specific date has been set yet) to determine whether the measures in the order have been carried out.
- If there is continued non-compliance, the Environmental Assessment Office would consider all the relevant factors to determine whether to exercise its authority under the *Environmental Assessment Act* to proceed with additional enforcement.

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office
250-356-5311
Nicole.Vinette@gov.bc.ca

From: Karn, David GCPE:EX
Sent: Tuesday, June 28, 2016 9:22 AM
To: Vinette, Nicole EAO:EX
Cc: Craven, Paul EAO:EX
Subject: media request - Alaska Hwy News - Site C compliance

Nicole,
Took a stab at this with the bg from the IN.
Reporter: Zoe Ducklow, AHN reporter@ahnfsj.ca
Deadline: 1pm
Request: questions about the warnings you issued to BC Hydro regarding Site C.
Firstly, I just want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks? Is this warning issued because they've failed to have procedures in place, or because there have been hydrocarbon spills that were poorly dealt with? And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?
Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?
Suggested response:
want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks?

- EAO C&E Officers observed hazardous waste, hydrocarbon contaminated waste, recyclables, and domestic waste mixed together in single bins. Lack of segregation of waste and recyclables leads to the improper disposal of waste, including hydrocarbon contaminated waste and hazardous waste, in area landfills contrary to project requirements and the *Environmental Management Act* (the Act).
- EAO C&E Officers also observed numerous vehicles and equipment leaking hydrocarbon to ground, and hydrocarbon spills that had not been cleaned up as required. Failure to clean up and properly dispose of spilled or leaked hydrocarbons leads to contaminated soil and water.

And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

- The waste management Order requires that BC Hydro segregate all waste types and recyclables in clearly marked receptacles and conduct daily monitoring:
- The hydrocarbon management Order requires that BC Hydro:
    - conduct daily monitoring of vehicles, equipment, and storage areas to identify hydrocarbon leaks; and
    - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.
- BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 11:58 AM
To: Vinette, Nicole EAO:EX
Subject: Re: Prosperity Gold-Copper Project - Revised IN re: Amendment Request

Yes if you could send on my behalf. Cc Kevin and ask Sabrina to post on the SharePoint. Thanks.

Sent from my iPhone

On Jun 28, 2016, at 11:22 AM, Vinette, Nicole EAO:EX <Nicole.Vinette@gov.bc.ca> wrote:

> Hi Paul,
> As requested, please find attached a copy of the approved Prosperity IN to send to the MO. If you'd rather I send it instead, just let me know.
> Also, I'll let you know once the Taseko and TNG letters have been approved and are ready to go over. In the meantime, I'll send the IN to GCPE and confirm that they're coordinating with MARR, as requested by Kevin.
> ~Nicole
> Nicole Vinette
> Manager of Communications & Stakeholder Engagement
> Environmental Assessment Office
> 250-356-5311
> Nicole.Vinette@gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 11:56 AM
To: Perry, Monica EAO:EX
Subject: Re: RBT2 Location and OneNote link

Mark and I will drop by.

Paul

Sent from my iPhone

On Jun 28, 2016, at 11:47 AM, Perry, Monica EAO:EX <Monica.Perry@gov.bc.ca> wrote:

> We are at lunch. Corner of west pender and Howe at scille
>
> Sent from my iPhone
>
> On Jun 28, 2016, at 9:45 AM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:
>
> > Should be there about 11:30.
> > Paul
> >
> > **From:** Perry, Monica EAO:EX
> > **Sent:** Tuesday, June 28, 2016 9:38 AM
> > **To:** Craven, Paul EAO:EX
> > **Subject:** Re: RBT2 Location and OneNote link
> > No worries. We have it all here. Let me know when you arrive and I can give you a bit of a debrief on the morning.
> >
> > Sent from my iPhone
> >
> > On Jun 28, 2016, at 7:49 AM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:
> >
> > > Thanks. See you there. Unfortunately the link does not work for me but I think (hope) I have everything I need.
> > > Paul
> > >
> > > **From:** Perry, Monica EAO:EX
> > > **Sent:** Monday, June 27, 2016 6:44 PM
> > > **To:** Craven, Paul EAO:EX
> > > **Cc:** Haines, Kate EAO:EX; Grace, David H EAO:EX
> > > **Subject:** FW: RBT2 Location and OneNote link
> > > Paul,
> > > Kate created a OneNote page, that you should be able to access as well. It has all the key documents. Not sure how to load things up on the page, so the PP with notes is note there.
> > > The panel session is being held at the Downtown Vancouver Simon Fraser University – Segal Building, 500 Granville Street, Vancouver Room 1200-1500.
> > > Let me know if you need anything else.

From: Grace, David H EAO:EX
Sent: Monday, June 27, 2016 4:33 PM
To: Perry, Monica EAO:EX
Cc: Haines, Kate EAO:EX
Subject: FW: RBT2 one note
Hi Monica – see Kate's magic onenote!

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 3:14 PM
To: Grace, David H EAO:EX
Subject: RBT2 one note
RBT2
Give this a try
--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Tuesday, June 28, 2016 11:25 AM
To: Karn, David GCPE:EX; Crebo, David GCPE:EX
Cc: Craven, Paul EAO:EX
Subject: Prosperity Gold-Copper Project - Revised IN re: Amendment Request
Attachments: IN_EAO_Prosperity_CertificateExtensionDecision_28June2016.docx

Hi Dave and Dave,

Please find attached a copy of the approved Prosperity IN, which Paul will be sending to the MO shortly. Also, I'll let you know once the Taseko and TNG letters have been approved and can be sent over.

In the meantime, can you please confirm that you're coordinating with MARR? Thanks, and please let me know if there's anything else you need form us at this point.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

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PROSPERITY GOLD-COPPER PROJECT
AMENDMENT REQUEST

- Taseko Mines Limited (Taseko) has asked the Province to complete its review of Taseko's proposed amendment to the environmental assessment (EA) Certificate for the Prosperity Gold-Copper Project.

- As set out in the *Environmental Assessment Act*, an EA certificate holder must apply for an amendment if there are proposed changes to the design, location, construction, operation or decommissioning of a project.

- The proposed amendment is to allow for the changes in project design contemplated by Taseko's New Prosperity Project proposal.

- The Tsilhqot'in National Government has expressed concerns to Environmental Assessment Office regarding proceeding with a review of Taseko's amendment request at this time.

- EAO will continue its review of the amendment application given Taseko's request. The fact that the federal government has rejected the New Prosperity Project, and that Taseko is challenging this rejection in court, does not change EAO's obligation to review this application.

- EAO will need to revise its process for this review in light of Taseko's court challenge to the federal Panel information, EAO's requirement for a tailings alternatives assessment, findings in EAO's review of Taseko's Certificate extension request, and EAO's obligations under the Neqay Deni Accord.

- EAO's process will include consultation with Aboriginal Groups and government expert technical advice.

Background:

- The Prosperity Gold-Copper Project (Project) received a provincial EA Certificate on January 14, 2010; however, the federal government rejected it in November 2010, following a federal panel review. In 2011, Taseko subsequently proposed changes to the Project (New Prosperity). New Prosperity was rejected by the federal government on February 25, 2014, following a panel review.
- Taseko also applied to EAO for an amendment to its EA Certificate in 2011 to allow for the changes contemplated by New Prosperity design. EAO planned to rely principally on the federal Panel review for the information needed for the review of the proposed amendment.
- Taseko has challenged the federal Panel report and process, as well as the federal decision, in federal court and those proceedings are still in progress.
- Neither the New Prosperity nor the original Prosperity Gold-Copper Project proposal can be built in the absence of federal approval.
- Following the federal decision, EAO focused on reviewing Taseko's June 11, 2014, request for a five-year extension to its Certificate. The duration of the provincial EA Certificate issued in 2010 is five years from the issue date. If the Project had not been substantially started by that date, it would expire.
- On January 13, 2015, the Minister of Environment granted a five-year extension to the EA Certificate. The decision recognized that the amendment review had yet to be completed and, in addition to the issues related to the proposed amendment, EAO would consider other material new information or new adverse effects since the Certificate was originally issued.
- Taseko has not actively pursued its amendment with EAO since the Minister issued the extension.
- On May 13, 2016, Taseko wrote to the Premier of the Province, raising concerns about the length of time it has taken for EAO's review of the proposed amendment, and seeking completion of that review. The letter also raises concerns about the actions of the Ministry of Energy and Mines in its participation in the federal panel process, and the implications of and lack of consultation on the Nenqay Deni Accord with the Tsilhqot'in National Government (TNG). The letter also includes a threat of legal proceedings.
- EAO will be responding directly to Taseko on the EAO matters. The Ministry of Justice has responded to the other matters in the letter.
- s.14

- The Project, a conventional open-pit mining project with a 20-year operating life and a production capacity of 70,000 tonnes of mineral ore per day, is 125 km southwest of Williams Lake.
- The total capital cost as originally proposed by Taseko and approved by the Province was estimated at $800 million, with annual operating costs of $200 million. The capital cost of the new proposal is estimated at $1 billion. Taseko released a study in October 2011 that estimated provincial government revenue at $5.52 billion and federal government revenue at $4.3 billion over the life of the mine.

Communications Contact:	Nicole Vinette	250 356-5311
Program Area Contact:	Shelley Murphy	250 387-1447

Pizarro, Kirsten EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Tuesday, June 28, 2016 11:22 AM
To: Craven, Paul EAO:EX
Subject: Prosperity Gold-Copper Project - Revised IN re: Amendment Request
Attachments: IN_EAO_Prosperity_CertificateExtensionDecision_28June2016.docx

Hi Paul,

As requested, please find attached a copy of the approved Prosperity IN to send to the MO. If you'd rather I send it instead, just let me know.

Also, I'll let you know once the Taseko and TNG letters have been approved and are ready to go over. In the meantime, I'll send the IN to GCPE and confirm that they're coordinating with MARR, as requested by Kevin.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

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Withheld pursuant to/removed as

DUPLICATE

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 11:19 AM
To: Loiacono, Sabrina EAO:EX
Cc: Vinette, Nicole EAO:EX; Neilson, Kirsten EAO:EX
Subject: Re: Request: Revised Prosperity IN for Review/Approval

Ok. Let's send IN along and we can send letters following.

Sent from my iPhone

On Jun 28, 2016, at 11:08 AM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

> Not yet. They look like they are with Kevin now.
> Kind regards,
> S.
> **From:** Vinette, Nicole EAO:EX
> **Sent:** Tuesday, June 28, 2016 10:24 AM
> **To:** Loiacono, Sabrina EAO:EX
> **Cc:** Craven, Paul EAO:EX
> **Subject:** Fwd: Re: Request: Revised Prosperity IN for Review/Approval
>
> Hi Sabrina,
>
> Do we have finalized and approved copies of the TNG and Taseko letters yet that Paul can send to the MO, along with the approved IN? Thanks...
>
> -Nicole
>
> ---------- Forwarded message ----------
> From: "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> Date: Jun 28, 2016 10:17 AM
> Subject: Re: Request: Revised Prosperity IN for Review/Approval
> To: "Vinette, Nicole EAO:EX" <Nicole.Vinette@gov.bc.ca>
> Cc: "Loiacono, Sabrina EAO:EX" <Sabrina.Loiacono@gov.bc.ca>,"Craven, Paul EAO:EX" <Paul.Craven@gov.bc.ca>
>
> Thx, Nicole. This looks fine. Please flag once again with GCPE that they coordinate any messaging with their colleagues at MARR.
>
> Rgds,
> K.
> 250-361-6753
> *Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.
>
> On Jun 28, 2016, at 9:31 AM, Vinette, Nicole EAO:EX <Nicole.Vinette@gov.bc.ca> wrote:

Hi Kevin,

Please see below for a link to the revised Prosperity IN (also attached to this e-mail). It has been reviewed by Shelley, Paul and Cory. If you would like any changes made before it goes to the MO, please let me know.

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_28June2016.docx

Thanks…

~Nicole

Nicole Vinette

Manager of Communications & Stakeholder Engagement

Environmental Assessment Office

250-356-5311

Nicole.Vinette@gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 11:18 AM
To: Carr, Michelle EAO:EX
Subject: Public Consultation

Sent from my iPhone

Pizarro, Kirsten EAO:EX

From: Shepard, Michael EAO:EX
Sent: Tuesday, June 28, 2016 11:02 AM
To: Craven, Paul EAO:EX; Bailey, Scott EAO:EX; James, Tracy A EAO:EX; Walters, Kimberly A EAO:EX; Walton, Lindsay EAO:EX; Stockman, Fern P EAO:EX; Carter, Rumon EAO:EX
Cc: Carr, Michelle EAO:EX
Subject: s.13
Attachments:

Thanks for compiling this summary, Paul. I've included comments and suggested edits to the attached for your consideration and am happy to discuss.

Mike

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 8:10 AM
To: Bailey, Scott EAO:EX; James, Tracy A EAO:EX; Shepard, Michael EAO:EX; Walters, Kimberly A EAO:EX; Walton, Lindsay EAO:EX; Stockman, Fern P EAO:EX; Carter, Rumon EAO:EX
Cc: Carr, Michelle EAO:EX: Craven. Paul EAO:EX
Subject: s.13

Hello everyone,

Attached is a summary/compilation of the proposals/options we have discussed. I shared a previous version of this with Michelle before she left (note -s.13). Please take a look and provide any comments/observations or other idea you might have by the end of the week. I will also try and organize another meeting to discuss but it may be difficult given summer holidays.

Leya: could you please arrange a follow-up meeting. Thanks.

Paul

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748

EAO Environmental Assessment Office

Page 0609 to/à Page 0613

Withheld pursuant to/removed as

s.13

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 10:38 AM
To: Piccinino, Ines MNGD:EX
Subject: Re: Federal EA Review Process

Hi Ines,

I just had a chat with Linda this morning and I have a call into Michelle S. I hope to have a meeting next week with everyone. Our first decision will be whether we have any comments on the terms of reference for the reviews (I doubt it).

Coordination will be key. Let me know if you need more.

Paul

Sent from my iPhone

On Jun 28, 2016, at 10:23 AM, Piccinino, Ines MNGD:EX <Ines.Piccinino@gov.bc.ca> wrote:

> Hi, Paul!
> Just wondering if you've already connected with my staff and what the plan is at this point.
> Thanks!
> Ines
>
> **From:** Carr, Michelle EAO:EX
> **Sent:** Wednesday, June 22, 2016 9:21 AM
> **To:** Paulson, Ken OGC:IN; Kittleson, Christian ABR:EX; Piccinino, Ines MNGD:EX; Hansen, Brian MNGD:EX; Kriese, Kevin FLNR:EX; Robb, Peter L. MEM:EX; Manwaring, Richard G FLNR:EX; Sutherland, Craig FLNR:EX; Coley, Simon J JAG:EX; Jones, Christopher H JAG:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX
> **Cc:** Craven, Paul EAO:EX
> **Subject:** FW: Federal EA Review Process
> Further to some email exchanges with a few of you yesterday, please see below. I would suggest that once Paul has connected with key staff and scoped this out further that this would be a good discussion at NRS ADMs given the earlier ADM discussion about ensuring connectivity on federal engagements.
> Michelle
> **Michelle Carr** | Assistant Deputy Minister
> Environmental Assessment Operations, Environmental Assessment Office
> Phone: 250-387-2307
>
> **From:** Jardine, Kevin EAO:EX
> **Sent:** Wednesday, June 22, 2016 9:07 AM
> **To:** Sheldan, Tim FLNR:EX; Caul, Doug D ABR:EX; Sturko, Derek AGRI:EX; Nikolejsin, Dave MNGD:EX; Shoemaker, Wes ENV:EX; Main, Grant TRAN:EX; McKnight, Elaine L MEM:EX; Maranda, Pierrette IGRS:EX
> **Cc:** Henderson, Kim N PREM:EX; Sweeney, Neil PREM:EX; Craven, Paul EAO:EX; Carr, Michelle EAO:EX; Loiacono, Sabrina EAO:EX; Kapac de Frias, Martina E ENV:EX
> **Subject:** Federal EA Review Process
> Colleagues,

As you know, earlier this week the federal government announced the process for the regulatory reviews of federal environmental assessment process and modernizing the National Energy Board. Both reviews will be conducted by Expert Panels that will begin public consultations in September 2016 and are required to produce a final report with recommendations by January 2017. The panels will be named following a public comment period on the terms of reference (which ends July 20, 2016). Please see the attached IN for further details.

EAO will co-ordinate the provincial response to both reviews although the approach to the review on modernizing the National Energy Board may be slightly different given the broader nature of the NEB's responsibilities and the review itself. We took a similar approach as we prepared the provincial response to the parliamentary review before the introduction of CEAA 2012.

I have asked Paul Craven to lead this work and he will be in contact with his counterparts in your Ministries. If you would like to name a specific individual to be involved in this work please let us know.

I anticipate that we will also need to be co-ordinated with the approaches on the reviews concerning restoring lost protections and introducing modern safeguards to the Fisheries Act and the Navigation Protection Act. Perhaps we could discuss our approach to this review at an upcoming NRB meeting or in an ad hoc call, as clearly EAO is not the appropriate agency to lead this work.

As the work progresses, we will provide further updates. Please don't hesitate to contact me in the meantime should you wish to discuss further.

With best rgds,

K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

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Pizarro, Kirsten EAO:EX

From: Scraba, Erin H EAO:EX
Sent: Tuesday, June 28, 2016 9:47 AM
To: Rathbone, Mary EAO:EX
Subject: assignment-draft BN due for Thursday noon

Hi Mary,

s.13

Erin Scraba
Manager, Legislation, Policy and Project Assessment
250-387-7412
Erin.Scraba@gov.bc.ca

EAO | Environmental Assessment Office

Pizarro, Kirsten EAO:EX

From: Psyllakis, Jennifer FLNR:EX
Sent: Tuesday, June 28, 2016 8:50 AM
To: Ciruna, Kristine FLNR:EX; Burbee, Jeremy NRTS:EX; Craven, Paul EAO:EX; McGuire, Jennifer ENV:EX; Dale, Alec R ENV:EX; Lidstone, Allan B FLNR:EX; Hoffos, Robin FLNR:EX; Barrett, Scott FLNR:EX; Nussbaum, Albert F FLNR:EX; Love, Bobby FLNR:EX; Tesch, David ENV:EX; Curry, Sean; Austin, Matt MNGD:EX; Csicsai, Peter MEM:EX; Anthony, Jennifer MEM:EX; Davis, Jennifer C FLNR:EX; Gawalko, Lyle ENV:EX; Addison, Christopher FLNR:EX; Bilodeau, Normand G FLNR:EX; Reay, Gary W MNGD:EX; Spence, Karen ABR:EX
Cc: Malkinson, Leah FLNR:EX; Scraba, Erin H EAO:EX; Mynen, Tonianne FLNR:EX; Pizarro, Kirsten EAO:EX; Mlinar, Shannon C FLNR:EX; Welsh, Leah ENV:EX; Regnier, Anna N FLNR:EX; Pesklevits, Anthony FLNR:EX; Valdal, Eric FLNR:EX; Cage, Rhonda R FLNR:EX; Smith-Rockwell, Angela FLNR:EX; Cook, Kelly L FLNR:EX; Kolman, Brian FLNR:EX; Calof, Justin FLNR:EX; Burger, Sarah ABR:EX; Hebden, Karen FLNR:EX
Subject: Value summaries - Aquatic ecosystems
Attachments: s.13

Hi All,

s.13

Please feel free to distribute this email to your staff.

We will provide a summary of comments received and an update to the engagement summary this week.

Thanks,

Jen

s.13

Page 0618 to/à Page 0650

Withheld pursuant to/removed as

s.13

Pizarro, Kirsten EAO:EX

Subject:	IGR Community of Practice
Location:	Auditorium A/B, HLTH, Basement, 1515 Blanshard St
Start:	Wed 2016-07-27 9:30 AM
End:	Wed 2016-07-27 11:30 AM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Haney, Donald IGRS:EX
Required Attendees:	Hrycuik, Lorie AGRI:EX; Easton, Joan E AGRI:EX; Brown, Susan B AVED:EX; Wood, Gillian CSCD:EX; Bamford, Kevena EDUC:EX; Lesiuk, Tim ENV:EX; Danks, Anthony ENV:EX; Craven, Paul EAO:EX; Molnar, Rory FIN:EX; Rowe, Katherine FLNR:EX; Ewing, Rebecca J FLNR:EX; Phelps, Blair GCPE:EX; Marr, Ann HLTH:EX; Lee, Sherri JAG:EX; Sharma, Rishi JTST:EX; Nicholls, Cloe JTST:EX; Cocco, Angelo JTST:EX; Little, Andrew JTST:EX; Puggioni, Giovanni ABR:EX; Miles, Barbara S ABR:EX; Chatwin, Ann MCF:EX; Marshall, Fraser MEM:EX; Ahn, Sohee MIT:EX; Calder, Kursti D MNGD:EX; Gow, Lisa A TRAN:EX; Marr, David TRAN:EX; Filmer, Cam A TRAN:EX; Duffy, Chris D TRAN:EX; Smith, Grant H IGRS:EX; Periwal, Sukumar IGRS:EX; Hewitt, Jeremy IGRS:EX; Sigurdson, Judi IGRS:EX; Langdon, Sarah IGRS:EX; Van Dyck, Brad IGRS:EX

Dear Colleague,

The Intergovernmental Relations Secretariat will be hosting an IGR Community of Practice meeting on Wednesday, July 27th from 9:30-11:30am at 1515 Blanshard Street. We hope that you will join us in person for this meeting, which will include updates on a number of intergovernmental files, along with an opportunity for ministries to provide a brief update on their respective intergovernmental files.

If you are unable to attend in-person, dial-in information is included on the agenda. If you wish to send a colleague in your place, please advise Sarah Langdon at Sarah.Langdon@gov.bc.ca and we will provide an updated list of attendees to security.

Please find attached the meeting agenda. I look forward to seeing you soon.

Regards,

Don Haney

Agenda - July 27 2016 COP.PDF

IGR Community of Practice Meeting

DATE: Wednesday, July 27, 2016

TIME: 9:30am -11:30am

LOCATION: Auditorium A/B, HLTH, Basement, 1515 Blanshard St

CONNECT: DIAL 1-877-353-9184, ID 3408341#

TIME	TOPIC	LEAD
9:30-9:35am	Introductory Remarks	Don Haney
9:35-9:50am	Council of the Federation - July 2016	Grant Smith
9:50-10:05am	Update: - FMM - Pan-Canadian Climate Change Strategy	Jeremy Hewitt
10:05-10:20am	Engagement with the federal government: - BC's Priorities update - DM & Ministers' meetings & correspondence	Don Haney
10:20-10:30am	Lean Briefing Note project	Sarah Langdon
10:30-10:40am	Pacific NorthWest Economic Region – July 2016	Judi Sigurdson
10:40-10:50am	Update on BC-U.S. files	Jeremy Hewitt
10:50-11:20am	Roundtable – upcoming opportunities	All

Pizarro, Kirsten EAO:EX

From: Waters, Cory EAO:EX
Sent: Monday, June 27, 2016 7:35 PM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
Subject: s.12
Attachments:

Thanks Kevin, done! I'll send to Tony F copy FNEMC, MARR and MEM.

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 7:26 PM
To: Waters, Cory EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
Subject: Re: Request: s.12

s.12,s.16

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 27, 2016, at 6:43 PM, Waters, Cory EAO:EX <Cory.Waters@gov.bc.ca> wrote:

> Kevin, at today's Mt. Polley Senior Officials Committee, MEM requested a short deck for use on Friday at the Principals Table. I suspect I will deliver, and s.16 . Before I send to MEM and MARR, I invite your thoughts. I suspect it may need to reflect any direction that emerges tomorrow.
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> Also attached is the draft agenda (meeting time has been changed to 2-4, but not reflected in the agenda items). MARR did provide the attached email package that is going to Ministers, along with an earlier agenda.
>
> s.13,s.16

C.

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 4:52 PM
To: Anderson, Steve PREM:EX
Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: RE: Request: s.12

Here it is, Steve.

Let me know if you need anything further,
K.

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Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: Request: s.12

Hi Kevin

May you (or one of your team) send us the PPT format version of the presentation going forward tomorrow? We need that format to show on screen.

Thanks

Steve

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Subject: RE: s.12

Please find attached, Elizabeth, the revised PPT.

Best rgds,
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Subject: Re: [s.12]

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> > **Subject: Fwd:** s.12
> >
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> >
> > > **From:** "Henderson, Kim N PREM:EX" <Kim.Henderson@gov.bc.ca>
> > > **Date:** June 20, 2016 at 3:52:01 PM MDT
> > > **To:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> > > **Subject:** s.12
> > >
> > > s.12
> > >
> > > Thanks.

Page 0656 to/à Page 0662

Withheld pursuant to/removed as

s.16;s.13

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Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
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Pizarro, Kirsten EAO:EX

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Sent: Monday, June 27, 2016 6:44 PM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
Subject: RE: s.12
Attachments: s.12

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s.12

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Pizarro, Kirsten EAO:EX

From: Morris, Tricia ABR:EX
Sent: Wednesday, June 22, 2016 4:02 PM
To: Zacharias, Mark ENV:EX; Robb, Peter L. MEM:EX; Kittleson, Christian ABR:EX; Bunce, Hubert ENV:EX; Demchuk, Tania MEM:EX; Berg, Shane ABR:EX; Amann-Blake, Nathaniel MEM:EX; Gash, Michael ABR:EX; Driedger, Erika ABR:EX
Cc: Birnie, Kayla ABR:EX
Subject: June 30th Principals Table materials
Attachments: June 2016 Update on Auditor General Report Implementation.docx; Mount Polley LOU Activities Update June 2016.docx

Hello everyone,

See attached Ministers briefing information for the upcoming Principals table on June 30th.

Thanks,
Tricia

Tricia Morris
Reconciliation Negotiator
Integrated Negotiations Branch
Ministry of Aboriginal Relations and Reconciliation
Phone: 250-387-5237
Mobile: 250-213-1605
Email: Tricia.Morris@gov.bc.ca

Update on Implementation of the Office of the Auditor Generals Report "An Audit of Compliance & Enforcement of the Mining Sector" June 2016

Auditor General Recommendations	
Part 1: Recommendations for Government	
Recommendation 1.0 – Overall Recommendation We recommend that the Government of British Columbia create an integrated and independent compliance and enforcement unit for mining activities, with a mandate to ensure the protection of the environment. Given that the Ministry of Energy and Mines is at high risk of **regulatory capture**, primarily because MEM's mandate includes a responsibility to both promote and regulate mining, our expectation is that this new unit would not reside within this ministry.	**Response:** It is the legislative framework in BC that drives compliance and enforcement activities not the organizational structure. Many provincial governments across Canada have agencies and ministries with the role of promoting and regulating an industry. In the absence of evidence by the Auditor General that this has compromised the integrity of the ministry or its staff, Government does not see the need for a reorganization of the ministries, however we are prepared to further discuss this with the OAG. Government will establish a Mining C&E Board that will address the need for greater integration between the ministries, as well as with the Environmental Assessment Office.
Part 2: Recommendations for Ministry of Energy and Mines and Ministry of Environment	
Recommendation 1.1 – Strategic Planning We recommend that government develop a strategic plan that would detail the activities of an integrated and coordinated regulatory approach, and the necessary capacity, tools, training and expertise required to achieve its goals and objectives.	**Response:** A Mining C&E Board will be established to oversee an integrated and coordinated regulatory approach to mining in the Province of B.C. The Board will be accountable to the Deputy Minister of Energy and Mines, the Deputy Minister of Environment and the Associate Deputy Minister of the Environmental Assessment Office. The Board will develop compliance and enforcement plans to map out proactive annual activities based on a risk-based approach. The board will also be responsible for furthering longer term strategic improvements in other areas such as: enhancing training; developing policies, procedures and tools; conducting evaluations; and expanding public reporting. MEM will appoint a new Deputy Chief Inspector of Mines for compliance and enforcement to oversee and implement improved C&E.

Auditor General Recommendations	
Recommendation 1.2 – Permit Language We recommend that government ensure both historical and current permit requirements are written with enforceable language.	**Response:** The ministries agree that permits must be written with measureable and enforceable requirements. Both ministries will develop policy to ensure enforceable and measurable requirements are used in all new and amended permits.
Recommendation 1.9 – Incentives We recommend that government create effective incentives to promote environmentally responsible behavior by industry.	**Response:** The ministries agree that it is useful to consider incentives as part of the compliance and enforcement regime governing mines and will continue to consider additional opportunities to recognize and reward good environmental performers. Furthermore, it is expected that expanded public reporting of compliance and enforcement activities will serve as a very effective incentive for promoting environmentally responsible behaviour.
Recommendation 1.10 – Risk-Based Approach We recommend that government develop a risk-based approach to compliance verification activities, where frequency of inspections are based on risks such as industry's non-compliance record, industry's financial state, and industry's activities (e.g., expansion), as well as risks related to seasonal variations.	**Response:** Compliance verification activities conducted by the ministries are founded on a risk-based approach; however, the ministries commit to review policies in this regard. The annual compliance and enforcement planning that will take place at the Mining C&E Board, established under recommendation 1.1, will also be risk-based to optimize the capacity and effectiveness of the ministries' collective compliance and enforcement resources.

Auditor General Recommendations	
Recommendation 1.12 – Qualified Professionals We recommend that government establish policies and procedures for the use and oversight of qualified professionals (QP) across the natural resources sector. These policies and procedures should have the following: • guidance for staff that outlines the specific nature and amount of oversight expected of a QP's work • guidance for staff as to expected timeframe for review and response to QP reports • updated guidance for staff for recognizing and responding to misconduct by a QP • controls in place to ensure that there is no undue influence on the QPs by industry • controls in place to ensure that recommendations by QPs are adhered to	**Response:** MEM's efforts are guided by the *Mines Act* and the Health, Safety and Reclamation Code for Mines in British Columbia. In particular, the Code Review currently underway is considering specific matters such as the need for a qualified individual designated as a mine dam safety manager to oversee all work associated with a tailings storage facility and will clarify the roles and responsibilities of the Engineer of Record at a mine. The Mining C&E Board, established under recommendation 1.1, will consider how MoE and MEM can strengthen the use and oversight of qualified professionals in the mining sector specifically. The Ministry of Forests, Lands and Natural Resource Operations has established a Qualified Persons in the Natural Resource Sector Framework. This framework guides the development and implementation of Qualified Persons policies and procedures specifically for the mining sector. The framework is based on the three essential components of guidance, competency and accountability and ensures the interests of government, resource users, qualified persons and other stakeholders are recognized and addressed.
Recommendation 1.14 – Policies, Procedures and Tools We recommend that government develop policies, procedures and enforcement tools for responding to non-compliances when industry does not meet government's specified timeline.	**Response:** The ministries agree on the importance of clear policies, procedures and tools to aid in their compliance and enforcement activities. The ministries will review these in light of the recommendations. The establishment of the Mining C&E Board, under recommendation 1.1, will serve to further inter-ministry collaboration and sharing of best practices. Government will also introduce amendments to the *Mines Act* to provide for Administrative Monetary Penalties in the spring 2016 legislative session.

Auditor General Recommendations	
Recommendation 1.15 – Evaluation and Adjustment We recommend government regularly evaluate the effectiveness of its compliance promotion, compliance verification, and enforcement activities and tools, and make changes as needed to ensure continuous improvement.	**Response:** Annual compliance and enforcement planning and reporting will provide a means to evaluate the effectiveness of the program, to ensure ongoing improved targeting of areas of concern and recognition of strong performers. The ministries will address this recommendation through the establishment of a Mining C&E Board under recommendation 1.1.
Recommendation 1.16 – Public Reporting We recommend that government report publicly the: • results and trends of all mining compliance and enforcement activities • effectiveness of compliance and enforcement activities in reducing risks and protecting the environment • estimated liability and the security held for each mine.	**Response:** The ministries support public reporting and have been making progress in this area. The Ministry of Environment has been reporting its enforcement actions for many years through published reports and an online searchable database. It reports all of its enforcement actions including orders, administrative sanctions, administrative monetary penalties, violation tickets and court prosecutions. The ministry will work with Ministry of Energy and Mines to explore including their enforcement actions in the reporting. In 2012, the Ministry of Environment published all of its permits for industrial and municipal facilities that discharge waste into the environment, including mines. This dataset provides the opportunity for citizens to access province-wide data on those facilities, including information on fees, locations and discharges. The Ministry of Energy and Mines published all dam safety inspections, emergency response plans and related documents online in 2015. The ministry will continue to publish further documents for all major mines in British Columbia. The ministries will report on trends and effectiveness of C&E in the mining sector.

Auditor General Recommendations	
Part 3: Recommendations for Ministry of Energy and Mines	
Recommendation 1.3 – Security – Adequate Coverage We recommend that government safeguard taxpayers by ensuring the reclamation liability estimate is accurate and that the security held by government is sufficient to cover potential costs.	**Response:** As seen in the 2014 Chief Inspector's Annual Report, "In the past few years, the value of security deposits has increased to reflect more closely the true costs of reclamation. The total value of securities held by the Province has risen from $10 million in 1984 to more than $773 million by the end of 2014."
Recommendation 1.4 – Security – Catastrophic Events We recommend that government review its security mechanisms to ensure taxpayers are safeguarded from the costs of an environmental disaster.	**Response:** Environmental disasters, like the one seen as a result of the Mount Polley tailing facility breach, can result in damage both on and off a mine site. It is the responsibility of the mine operator to ensure sufficient environmental liability insurance is held to meet the risk of such disasters. The *Environmental Management Act* contains authority for spill response actions and cost recovery to require persons in possession or control of any polluting substance to prepare contingency plans and to implement those plans at their expense in the event of a spill. The Act also provides for the recovery of costs should action to respond to a spill be declared by the Minister. This Act is being amended to proactively require potential polluters to pay into a spill preparedness and response organization. These amendments are due for introduction to the Legislature this year.
Recommendation 1.8 – Reclamation Guidance We recommend that government develop clear and comprehensive reclamation guidance for industry.	**Response:** Internal work has begun on developing additional guidance materials on a range of reclamation aspects, including erosion and sediment control plans, closure management manuals, reclamation security, etc.
Recommendation 1.11 – Systematic Compliance Verification We recommend that government systematically monitor and record compliance with high-risk mine permit requirements.	**Response:** As with Recommendation 1.10 above, a risk-based approach to compliance and enforcement workforce planning will uncover poor performers for closer scrutiny.

Auditor General Recommendations	
Recommendation 1.13 – Mine Design We recommend that government adopt appropriate standards, review mine designs to ensure that they meet these standards, and ensure that mines, as constructed, reflect the approved design and standards.	**Response:** This recommendation is presented at the conclusion of the Audit Report section on the Mount Polley TSF breach. There had been nine design stages over the life of the TSF at Mount Polley Mine. All stages, including the design stage in place at the time of the breach had been prepared by the design engineer; a qualified professional. MEM reviewed and authorized permit amendments for each stage of the TSF. Each stage of construction was certified by the Engineer of Record in the as-built reports. The failure of the TSF was not an enforcement issue. Through legislation like the *Engineers and Geoscientists Act*, government has created technical bodies to formalize accountability and protect the public interest. As appropriate in their role, in response to the Expert Panel findings on Mount Polley the Association of Professional Engineers and Geoscientists BC is developing professional practice guidelines for dam site characterization assessments. Government is also undertaking a review of the Mining Code with labour, First Nations and industry representatives to determine how best to implement the expert panel findings.
Part 4: Recommendations for Ministry of Environment	
Recommendation 1.5 – *Environmental Management Act* Waste Discharge Fees We recommend that government review its fees under the *Environmental Management Act* and ensure that the fees are effective in reducing pollution at mine sites.	**Response:** The Ministry of Environment is committed to reviewing the fee structure for waste discharges under the *Environmental Management Act*. Work has already been initiated to assess current fees, as well as conduct a cross-jurisdictional scan of fees imposed by other provinces and territories.

Auditor General Recommendations	
Recommendation 1.6 – Cost Recovery We recommend that government adopt a cost recovery model for permitting and compliance verification activities that is consistent across all ministries in the natural resources sector.	**Response:** The Ministry of Environment recognizes that other natural resource sector ministries, including the Environmental Assessment Office, have begun imposing fees on industry for permitting and compliance verification activities. The ministry will be examining the imposition of fees for these activities. Effective April 1, 2015 permit fees were introduced under the *Mines Act* and the existing inspection fees were raised. This enabled a budget increase of approx. $9.3M to the Ministry of Energy and Mines in Budget 2016.
Recommendation 1.7 – Decision Making – Use of section 137 of the *Environmental Management Act* We recommend that government publically disclose its rationale for granting a permit under section 137 of the *Environmental Management Act*. Specifically, information should include how factors such as economic, environmental, and social attributes were considered in the determination of public interest.	**Response:** As provided for in Section 137 of the *Environmental Management Act*, Cabinet may consider factors that are in the public interest and beyond those that a ministry director may consider. Discussions underlying the approval of an OIC are a matter of Cabinet confidentiality. However, the results of Cabinet decisions, when they are issued in the form of OICs, are published on the BC Laws website.

Mount Polley Letter of Understanding Update
June 21, 2016

The following is brief summary of current and planned activities First Nations will be involved in through the Mount Polley LOU over the next 6 months.

s.16,s.17

Mining Dialogue

The March 2016 Principals table identified further refinement of the environmental assessment process recommendations and engagement on free entry reform as areas of focus in 16/17.

The Province and the FNEMC are currently finalising a work plan for 16/17 activities and deliverables. Both areas will involve First Nations and industry engagement through workshops and meetings occurring throughout the Province.

Proposed deliverables Include:
Mine Free Entry Reform:

- Develop an initial report on the interests and options for free entry reform based on discussions with industry and government (December 31, 2016).
- FNEMC proposes to share the report with and receive comments from the First Nations Leadership Council, regional and individual First Nations organizations situated in active exploration districts, and industry and government (January to March 2017)
- Prepare a final report for free entry reform detailing the nature and degree of First Nations and industry support for possible recommendations (March 31, 2017). Recommendations will be presented to the Principals Table prior to March 31, 2017.

Review of Environmental Assessment Process

- FNEMC and EAO will deliver approximately five workshops to First Nations communities and organizations to discuss the EA enhancement process as presented to the Principal's Table, to be completed by approximately January 31, 2017.
- FNEMC in collaboration with EAO will establish and carrying out communications with BC First Nations to organize and promote the workshops and collect and analyze First Nations comments and responses.
- Undertake engagement with the First Nations Leadership Council and other First Nations Organisations, collaborate with the BC EAO on the results of such engagement and provide a final report on the EA enhancement process (March 31,2017). Recommendations will be presented to the Principals Table prior to March 31, 2017.

Mine Activities

- April 29, 2016, MEM authorized an amendment of the restricted operations permits for Mount Polley Mining Corporation, allowing the mine to extract an additional one million tonnes of ore and deposit related tailings into springer pit.

s.16

-

- Community engagement on Mine Permitting
    - The Province continues to hold monthly meetings with First Nations on Mount Polley permitting activities upholding a commitment made at the Senior Officials Committee.

- The Long Term Water Management plan (June 2016)
    - The company has proposed deferral of some Mines Act information requirements to submission of the Long Term Water Management Plan. This may result in the need for a Mines Act permit amendment following the review of the plan.

- 2 Post Event Environmental Impact Assessments (PEEIAR) (June and Dec 2016)
    - The PEEIAR updates will be follow ups to the original PEEIAR released June 2015. Each report review should be less onerous than the original which they build upon. The latest PEEAIR update report was publically released on June 21, 2016.

- A Detailed Site Investigation (DSI) was submitted March 31 2016. Upon review it was determined that additional work and monitoring (summer 2016) was required and as a result a supplement to the DSI is to be submitted in October 2016. Risk Assessments for Human Health, Aquatic and Terrestrial by approved professionals are currently underway beginning in May 2016 with the resulting reports to be provided in November 2016. Input from WLIB and SCIB and their consultants regarding these documents are ongoing. The results of the DSI and the Risk Assessments will lead to further updates to the spill response action plan..

- The permit Annual Report (April 2016)
    - The Province received this report from the Mount Polley Mine Corporation in April 2016. The report is more comprehensive than 15/16 year and pre spill years. It covers new and a greater number of issues (including the spill) that previous years. The company has posted the report to their website.

- The Long Term Water Management plan (June 2016) in relation to the EMA permit
    - This plan submission will lead to a formal permit amendment application in the summer of 2016, this will be the subject of further first nation, public and agency consultation and review over the late summer and fall of 2016 with a permit amendment decision expected in late Nov or early Dec.

- Spill remediation and restoration
    - The Habitat Objectives Group including FNs and their consultants continues meetings and related work reviewing Habitat development activities along Hazeltine Creek and in Polley and Quesnel lakes throughout the year.

Page 0680 to/à Page 0686

Withheld pursuant to/removed as

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Agenda

Mount Polley Principals Table Meeting

6/30/2016
2:00pm to 4:00pm

Seymour Boardroom, Premiers Office Vancouver
740-999 Canada Place, Vancouver

PARTICIPANTS:
Williams Lake Indian Band Chief Ann Louie, Brian Olding, Kirk Dressler, Willie Sellars
Soda Creek Indian Band: Chief Donna Dixon, Georgia Bock
FNLC: Grand Chief Ed John, Grand Chief Stewart Phillip
FNEMC: Paul Blom, Dave Porter
Province: Minister Rustad, Minister Polak, Minister Bennett, Mark Zacharias, Hubert Bunce, Cory Waters, Peter Robb, Nathanial Amann Blake,Christian Kittleson, Tricia Morris

1:30pm to 1:45pm	**Funding Update**
1:45pm to 2:15pm	**Mine Dialogue Work Plan Polley Budget 16/17** o Proposed Activities 2016/17
2:15pm to 2:45pm	**Discussion on the Office of the Auditor General Report (an audit of compliance & enforcement of the mining sector)**
2:45pm to 3:00pm	***Break***
3:00pm to 3:30pm	**Mine Update** o Mine permitting o Long term water management plan review and related EMA permit amendment application process
3:30pm	**Next Steps**

Pizarro, Kirsten EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 4:52 PM
To: Anderson, Steve PREM:EX
Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: s.12
Attachments:

Here it is, Steve.

Let me know if you need anything further,
K.

From: Anderson, Steve PREM:EX
Sent: Monday, June 27, 2016 4:50 PM
To: Jardine, Kevin EAO:EX
Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: Request:[s.12]

Hi Kevin

May you (or one of your team) send us the PPT format version of the presentation going forward tomorrow? We need that format to show on screen.

Thanks

Steve

Warning: *This email is intended only for the use of the individual or organization to whom it is addressed. It may contain information that is privileged or confidential. Any distribution, disclosure, copying, or other use by anyone else is strictly prohibited. If you have received this in error, please telephone or e-mail the sender immediately and delete the message.*

From: Jardine, Kevin EAO:EX
Sent: Thursday, June 23, 2016 4:34 PM
To: MacMillan, Elizabeth PREM:EX
Cc: Anderson, Steve PREM:EX; Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Kanac de Frias, Martina E ENV:EX
Subject: RE: R[s.12]

Please find attached, Elizabeth, the revised PPT.

Best rgds,
K.

From: Jardine, Kevin EAO:EX
Sent: Thursday, June 23, 2016 12:18 PM

To: MacMillan, Elizabeth PREM:EX
Cc: Anderson, Steve PREM:EX; Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX
Subject: Re: s.12

Sorry, Elizabeth, I misunderstood Kim's note & so spoke to MMP about ensuring we spoke to this linkage. I hadn't realized that she was looking for an edit to the PPT.

We'll get on it right away and have a revised version for you tomorrow.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 23, 2016, at 11:50 AM, MacMillan, Elizabeth PREM:EX <Elizabeth.MacMillan@gov.bc.ca> wrote:

> Hi Kevin - Kim was looking for revisions to the ppt according to her note below. The version presented to her just now from Cab ops did not include what she was seeking. Pls can u advise if a refreshed ppt is in the works?
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>
> Begin forwarded message:
>
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> > **Date:** June 23, 2016 at 12:27:54 PM MDT
> > **To:** "MacMillan, Elizabeth PREM:EX" <Elizabeth.MacMillan@gov.bc.ca>
> > **Subject: Fwd:** s.12
> >
> >
> > Begin forwarded message:
> >
> > > **From:** "Henderson, Kim N PREM:EX" <Kim.Henderson@gov.bc.ca>
> > > **Date:** June 20, 2016 at 3:52:01 PM MDT
> > > **To:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> > > **Subject:** s.12
> >
> > s.12
> >
> > Thanks.

Page 0690 to/à Page 0703

Withheld pursuant to/removed as

s.12;s.16;s.13

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Subject: RE: Request: s.12

Thanks kindly!!

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> > > **Subject:** s.12
> >
> > s.12
> >
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Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 4:12 PM
To: Starks, Terri EAO:EX
Subject: Re: Office moves

Likely yes.

Sent from my iPhone

On Jun 27, 2016, at 2:29 PM, Starks, Terri EAO:EX <Terri.Starks@gov.bc.ca> wrote:

> And the part time manager from GCPE – put a small third desk in IT hub?
>
> **From:** Craven, Paul EAO:EX
> **Sent:** Monday, June 27, 2016 2:25 PM
> **To:** Starks, Terri EAO:EX
> **Subject:** Re: Office moves
> My thought was Mary would stay where is is. Justin and Drew would share a space Jim's office but when both are here they would use a cubicle by Mary.
>
> Sent from my iPhone
>
> On Jun 27, 2016, at 2:14 PM, Starks, Terri EAO:EX <Terri.Starks@gov.bc.ca> wrote:
>
> > Hi Paul,
> > I am missing one piece of info.
> > Where is Mary going to sit?
> > Please let me know when all staff are aware – compliance, Mary and IT.
> > Thanks.
> > Terri

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 4:11 PM
To: Rennert-May, Leya EAO:EX
Subject: Re: Disregard email

Ok. Thanks.

Sent from my iPhone

On Jun 27, 2016, at 3:16 PM, Rennert-May, Leya EAO:EX <Leya.RennertMay@gov.bc.ca> wrote:

> Hi Paul,
> I believe I just inadvertently forwarded you a hold from my calendar. Please disregard.
> Thanks,
> Leya

Pizarro, Kirsten EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Monday, June 27, 2016 3:33 PM
To: Fenton, Chrystal EAO:EX; Craven, Paul EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: RE: Request: Prosperity Amendment - Revised IN for Review
Attachments: IN_EAO_Prosperity_CertificateExtensionDecision_27June2016.docx

Excellent, thanks Chrystal. Here is the revised IN for Cory's review, which has been drafted by Shelley and reviewed by Paul. I think we're trying to get this tidied up ASAP so we can issue the letters tomorrow. If any changes are needed, please let me know. Thanks!

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_27June2016.docx

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 3:05 PM
To: Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: RE: Request: Prosperity Amendment - Revised IN for Review

Hi Nicole, she is away, I will send to Cory for review as he is acting ADM this week. Is there a deadline on this?

From: Vinette, Nicole EAO:EX
Sent: Monday, June 27, 2016 2:55 PM
To: Craven, Paul EAO:EX
Cc: Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Request: Prosperity Amendment - Revised IN for Review

Hi Paul,

Please see below (and attached) for a link to the revised Prosperity IN that provides info re: EAO's response to both Taseko and the TNG re: the proposed amendment, as requested by Kevin. Shelley made the edits, so after fixing a few typos, I'm sending it to you for review.

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_27June2016.docx

Chrystal, can you please confirm if Michelle is away this week and, if yes, whether this IN needs to go to someone who might be backing her up while she's away? If not, Sabrina, the IN will come straight to Kevin following Paul's review. Any challenges we should know about with respect to Kevin's schedule for the rest of the day? Thanks...

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

From: Murphy, Shelley EAO:EX
Sent: Monday, June 27, 2016 2:41 PM
To: Vinette, Nicole EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: TNG-Taseko

I put in a few additional points in the link.

From: Vinette, Nicole EAO:EX
Sent: Monday, June 27, 2016 2:11 PM
To: Murphy, Shelley EAO:EX
Subject: RE: TNG-Taseko

No problem, Shelley. Here you go, as a link and an attachment:

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_27June2016.docx

Let me know if there's anything I can do to help.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

From: Murphy, Shelley EAO:EX
Sent: Monday, June 27, 2016 2:07 PM
To: Vinette, Nicole EAO:EX
Subject: FW: TNG-Taseko

FYI... if you send me the IN link I can add some language reflecting the response we are giving

---

From: Murphy, Shelley EAO:EX
Sent: Monday, June 27, 2016 2:06 PM
To: Jardine, Kevin EAO:EX; Neilson, Kirsten EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: TNG-Taseko

I think Steve D may have already formatted/Cliffed. Kirsten, check with him.

I have an e-sig that can be applied when we are ready.

Paul, I can work with you on the IN this afternoon. Just needs updating as to what our response is, now that we are prepared to send the letters.

Shelley

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:04 PM
To: Neilson, Kirsten EAO:EX; Murphy, Shelley EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: TNG-Taseko

Could I as, Kirsten, that you please CLIFF and format the attached letters in preparation for distribution? I'd like them to be ready to go as early as tomorrow.

Shelley: Can you please make sure Paul has what he needs to update the IN or let Steve know to do so? On a practical note, how do we get your signature on the Taseko letter?

Rgds,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Page 0715 to/à Page 0717

Withheld pursuant to/removed as

DUPLICATE

Program Area Contact:	Shelley Murphy	250 387-1447

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 3:23 PM
To: Fenton, Chrystal EAO:EX
Cc: Rennert-May, Leya EAO:EX
Subject: Re: OAG C&E Mining Response Update

Not at all.

Sent from my iPhone

On Jun 27, 2016, at 3:17 PM, Fenton, Chrystal EAO:EX <Chrystal.Fenton@gov.bc.ca> wrote:

> Hi Paul,
> Do you mind debriefing Michelle after this meeting, if needed?
> Thanks!
> **Chrystal Fenton** | Executive Administrative Assistant
> Environmental Assessment Operations, Environmental Assessment Office
> Phone: 250-387-9408

Pizarro, Kirsten EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 3:19 PM
To: Craven, Paul EAO:EX
Subject: Fwd: FOR COMMENT: IAIA17 Submission on UNDRIP in EA
Attachments: image001.gif; ATT00001.htm; IAIA17 UNDRIP in EA Session Submission.docx; ATT00002.htm

FYI...

Rgds,

K.

250-361-6753

Begin forwarded message:

> **From:** "Smith,Heather [CEAA]" <Heather.Smith@ceaa-acee.gc.ca>
> **Date:** June 27, 2016 at 3:18:01 PM PDT
> **To:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>, "Carr, Michelle EAO:EX" <Michelle.Carr@gov.bc.ca>
> **Subject: FOR COMMENT: IAIA17 Submission on UNDRIP in EA**
>
> Hi Kevin and Michelle!
>
> Please find attached your comments a proposed submission for the IAIA 2017 Annual Conference in Montreal. You will see that I have put your names in square brackets in the proposed submission. If you agree to co-chair, I will change my name from lead chair to "co-lead".
>
> There are a range of possible formats for the sessions. The two most relevant presentation options are:
>
> **Paper session**: In a paper session, authors orally present the findings of a prepared paper or project. A chaired Paper session typically allows 4-5 presentations of 15-20 minutes each, including time for specific questions. Ideally, the chair allocates a minimum of 20 minutes for general questions and open discussion following the presentations.
>
> **Panel discussion**: In a panel, the speakers are invited. The chair introduces each speaker and puts each talk in perspective. Each speaker gives a brief (10-15 minutes) prepared presentation, usually presenting a different view or experience on the topic, followed by debate between the speakers and questions from the audience facilitated by the chair.
>
> For this type of session, I think we would want to invite the presenters for the session, rather than open it up to anyone who wants to submit a paper. It may also be easier to get the participants to present a deck presentation rather than writing a "paper".
>
> Please let me know if you have any comments and whether you are willing to co-sponsor the presentation. Some of the ideas I had for panelists include the Squamish or Bing Giraud re Woodfibre, or the SSN for processes where there is no treaty in place; the Nisga'a or the Nunatsiavut Government

(developing EA processes under their land claims agreements); a representative of a Northern Land Claims Board, a representative on a committee under the James Bay & Northern Quebec Agreement (1st generation of the modern treaties), and someone who can talk about EA processes in southern Canada where treaties are in place (maybe me, maybe someone else).
Can you please let me know if you are willing to participate in organizing the session by Wednesday? I know it is short notice, but we need to get the submission in by June 30th. Cheers!

Heather Smith
Vice-President / Operations
Canadian Environmental Assessment Agency / Government of Canada-
Heather.Smith@ceaa-acee.gc.ca / Tel: 613-948-2665 / Fax: 613-957-0935
Vice-Présidente / Opérations
Agence canadienne d'évaluation environnementale / Gouvernement du Canada
Heather.Smith@ceaa-acee.gc.ca / Tél. : 613-948-2665 / Fax: 613-957-0935

International Association of Impact Assessment- 2017 Annual Conference

Session Title: *The Practical Implications of UNDRIP in the Context of Impact Assessment*

Lead Chair Name: Heather Smith – Canadian Environmental Assessment Agency

[Co-Chair Name: Kevin Jardine or Michelle Carr – British Columbia Environmental Assessment Office]

Conference Topic: Indigenous Peoples

Session Format: Panel Discussion

Session Description: *(300 words max)* There are more than 370 million Indigenous peoples in some 90 countries worldwide. Indigenous peoples have social, cultural, economic and political characteristics that are distinct from those of the dominant societies in which they live. They seek recognition of their identities, of their ways of life, and of their rights to traditional lands, territories and natural resources.

The United Nations *Declaration on the Rights of Indigenous Peoples* (UNDRIP), adopted on September 13, 2007, includes 13 articles that touch on environmental and decision-making rights, and rights to use and benefit from traditional territories. Decisions related to project assessment are often associated with Article 19, which asserts that:

> *"States shall consult and cooperate in good faith with the Indigenous Peoples concerned through their own representative institutions in order to obtain their free, prior and informed consent before adopting and implementing legislative or administrative measures that may affect them."*

Impact assessment serves as a key tool for identifying and mitigating adverse impacts on Indigenous peoples. This session will examine the practical implications of UNDRIP in the context of impact assessment of development projects.

Panelists will explore the opportunities and challenges of involving Indigenous peoples in project planning and the conduct of assessments, as well as in monitoring and follow up programs and other resource management activities that flow from project decisions. Presentations will represent a range of Canadian models.

Canada has over 40 years of experience in involving Indigenous peoples in environmental and social impact assessments, and over 30 years of experience in reconciling constitutionally protected Aboriginal and treaty rights with other public interests, including economic development interests. *(265 words)*

Session Summary: (*50 words max)*
This session examines the practical implications of the United Nations *Declaration on the Rights of Indigenous Peoples* for project assessment in Canada- the opportunities and challenges of Indigenous involvement in project planning, the conduct of assessments, monitoring and follow up programs, and resource management activities flowing from project approvals. *(50 words)*

Additional Information: (*75 words max)*
Panelists will be chosen to demonstrate the evolution of indigenous participation in project assessment and resource management over time, and to contrast approaches in southern Canada in treaty and non-

treaty areas, and with processes established in Land Claims Agreements in the North. The discussion will focus on lessons learned through implementation of different models of indigenous participation and future areas for innovation. *(62 words)*

Pizarro, Kirsten EAO:EX

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 3:18 PM
To: Craven, Paul EAO:EX
Cc: Rennert-May, Leya EAO:EX
Subject: OAG C&E Mining Response Update

Hi Paul,

Do you mind debriefing Michelle after this meeting, if needed?

Thanks!

Chrystal Fenton | Executive Administrative Assistant
Environmental Assessment Operations, Environmental Assessment Office
Phone: 250-387-9408

EAO Environmental Assessment Office

Pizarro, Kirsten EAO:EX

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 3:05 PM
To: Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: RE: Request: Prosperity Amendment - Revised IN for Review

Hi Nicole, s.22 I will send to Cory for review as he is acting ADM this week. Is there a deadline on this?

From: Vinette, Nicole EAO:EX
Sent: Monday, June 27, 2016 2:55 PM
To: Craven, Paul EAO:EX
Cc: Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Request: Prosperity Amendment - Revised IN for Review

Hi Paul,

Please see below (and attached) for a link to the revised Prosperity IN that provides info re: EAO's response to both Taseko and the TNG re: the proposed amendment, as requested by Kevin. Shelley made the edits, so after fixing a few typos, I'm sending it to you for review.

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_27June2016.docx

Chrystal, can you please confirm if Michelle is away this week and, if yes, whether this IN needs to go to someone who might be backing her up while she's away? If not, Sabrina, the IN will come straight to Kevin following Paul's review. Any challenges we should know about with respect to Kevin's schedule for the rest of the day? Thanks...

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

From: Murphy, Shelley EAO:EX
Sent: Monday, June 27, 2016 2:41 PM
To: Vinette, Nicole EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: TNG-Taseko

I put in a few additional points in the link.

From: Vinette, Nicole EAO:EX
Sent: Monday, June 27, 2016 2:11 PM
To: Murphy, Shelley EAO:EX
Subject: RE: TNG-Taseko

No problem, Shelley. Here you go, as a link and an attachment:

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_27June2016.docx

Let me know if there's anything I can do to help.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

From: Murphy, Shelley EAO:EX
Sent: Monday, June 27, 2016 2:07 PM
To: Vinette, Nicole EAO:EX
Subject: FW: TNG-Taseko

FYI... if you send me the IN link I can add some language reflecting the response we are giving

---

From: Murphy, Shelley EAO:EX
Sent: Monday, June 27, 2016 2:06 PM
To: Jardine, Kevin EAO:EX; Neilson, Kirsten EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: TNG-Taseko

I think Steve D may have already formatted/Cliffed. Kirsten, check with him.

I have an e-sig that can be applied when we are ready.

Paul, I can work with you on the IN this afternoon. Just needs updating as to what our response is, now that we are prepared to send the letters.

Shelley

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:04 PM
To: Neilson, Kirsten EAO:EX; Murphy, Shelley EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: TNG-Taseko

Could I as, Kirsten, that you please CLIFF and format the attached letters in preparation for distribution? I'd like them to be ready to go as early as tomorrow.

Shelley: Can you please make sure Paul has what he needs to update the IN or let Steve know to do so? On a practical note, how do we get your signature on the Taseko letter?

Rgds,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Pizarro, Kirsten EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Monday, June 27, 2016 2:55 PM
To: Craven, Paul EAO:EX
Cc: Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Request: Prosperity Amendment - Revised IN for Review
Attachments: IN_EAO_Prosperity_CertificateExtensionDecision_27June2016.docx

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Nicole Vinette
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Environmental Assessment Office

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Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

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Let me know if there's anything I can do to help.

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Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

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Rgds,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO | Environmental Assessment Office

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Page 0731 to/à Page 0733

Withheld pursuant to/removed as

DUPLICATE

Pizarro, Kirsten EAO:EX

From: Starks, Terri EAO:EX
Sent: Monday, June 27, 2016 2:30 PM
To: Craven, Paul EAO:EX
Subject: RE: Office moves

And the part time manager from GCPE – put a small third desk in IT hub?

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 2:25 PM
To: Starks, Terri EAO:EX
Subject: Re: Office moves

My thought was Mary would stay where is is. Justin and Drew would share a space Jim's office but when both are here they would use a cubicle by Mary.

Sent from my iPhone

On Jun 27, 2016, at 2:14 PM, Starks, Terri EAO:EX <Terri.Starks@gov.bc.ca> wrote:

> Hi Paul,
>
> I am missing one piece of info.
>
> Where is Mary going to sit?
>
> Please let me know when all staff are aware – compliance, Mary and IT.
>
> Thanks.
>
> Terri

Pizarro, Kirsten EAO:EX

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Sent: Monday, June 27, 2016 2:25 PM
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> Thanks.
> Terri

Pizarro, Kirsten EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 1:30 PM
To: Puggioni, Giovanni ABR:EX; Kittleson, Christian ABR:EX; Shepard, Michael EAO:EX
Cc: Craven, Paul EAO:EX
Subject: RE: s.16

Agreed.

From: Puggioni, Giovanni ABR:EX
Sent: Monday, June 27, 2016 1:29 PM
To: Jardine, Kevin EAO:EX; Kittleson, Christian ABR:EX; Shepard, Michael EAO:EX
Subject: Re: s.16

Thanks Kevin. We connected and talked.
s.16

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 12:18 PM
To: Puggioni, Giovanni ABR:EX; Kittleson, Christian ABR:EX; Shepard, Michael EAO:EX
Subject: RE: s.16

Thanks, Gio, for the heads up. Mike is actively working this file - s.16 and may give you a call to follow-up.

K.

From: Puggioni, Giovanni ABR:EX
Sent: Monday, June 27, 2016 12:16 PM
To: Kittleson, Christian ABR:EX; Shepard, Michael EAO:EX; Jardine, Kevin EAO:EX
Subject: s.16

s.16

Pizarro, Kirsten EAO:EX

From: Scraba, Erin H EAO:EX
Sent: Monday, June 27, 2016 1:03 PM
To: Perry, Monica EAO:EX
Cc: Craven, Paul EAO:EX
Subject: RE: EAO Capacity Funding Draft 2
Attachments: s.12

s.12

From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 11:58 AM
To: Scraba, Erin H EAO:EX
Cc: Craven, Paul EAO:EX
Subject: RE: EAO Capacity Funding Draft 2

s.12

Many thanks.

From: Scraba, Erin H EAO:EX
Sent: Monday, June 27, 2016 11:46 AM
To: Perry, Monica EAO:EX
Cc: Craven, Paul EAO:EX
Subject: FW: EAO Capacity Funding Draft 2

Further to my comment around the conditions attached to our budget lift in 2014, please keep Cheryl in the loop around decisions to change the capacity funding structure and allocation. We may be asked to report back to Treasury Board at some point.

e

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 11:16 AM

To: EAO Executive Project Directors; EAO Managers; Bates, Julia EAO:EX
Subject: EAO Capacity Funding Draft 2

Good morning, as discussed at OMT please find attached the EAO Capacity Funding document for your information and/or comment (to Monica).

Thanks
Chrystal

Page 0739 to/à Page 0758

Withheld pursuant to/removed as

s.12;s.13

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 12:59 PM
To: Bohn, Dominique EAO:EX
Subject: Re: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting

All right then. The room is crowded as it is.

Sent from my iPhone

On Jun 27, 2016, at 12:51 PM, Bohn, Dominique EAO:EX <Dominique.Bohn@gov.bc.ca> wrote:

> Its all blue sky forward looking stuff on the agenda, and the background is super high level, nothing you don't know about.
> s.22

Dominique Bohn
Executive Director, Service Reform
Ministry of Environment | Environmental Assessment Office
text + talk: 250.507.4791 | dominique.bohn@gov.bc.ca

From: "Craven, Paul EAO:EX" <Paul.Craven@gov.bc.ca>
Date: Monday, June 27, 2016 at 12:45 PM
To: Dominique Bohn <dominique.bohn@gov.bc.ca>
Subject: RE: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting

Really? s.22 . I doubt MC was thinking that way.
Paul

From: Bohn, Dominique EAO:EX
Sent: Monday, June 27, 2016 12:42 PM
To: Craven, Paul EAO:EX
Subject: Re: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting
s.22
be there too. She's pretty clear in her email that you are representing EAO.
I wrote Wilf to see if he wants me there in a general way but he hasn't responded.
I'll see you back at the ranch for SMT.
Dominique Bohn
Executive Director, Service Reform
Ministry of Environment | Environmental Assessment Office
text + talk: 250.507.4791 | dominique.bohn@gov.bc.ca

From: "Craven, Paul EAO:EX" <Paul.Craven@gov.bc.ca>
Date: Monday, June 27, 2016 at 8:51 AM
To: "Carter, Rumon EAO:EX" <Rumon.Carter@gov.bc.ca>, Dominique Bohn <dominique.bohn@gov.bc.ca>
Subject: FW: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting
I am attending this today....any info you can add?

From: Carr, Michelle EAO:EX
Sent: Friday, June 24, 2016 5:01 PM

To: Bangert, Wilf R NRTS:EX; Craven, Paul EAO:EX
Cc: Fenton, Chrystal EAO:EX
Subject: FW: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting
Hi, Wilf. Unfortunately I will be on annual leave and unable to attend the meeting next week. I'm hoping that Paul Craven is available to attend on EAO's behalf.
Thanks for connecting on this.
Michelle
Michelle Carr| Assistant Deputy Minister
Environmental Assessment Operations, Environmental Assessment Office
Phone: 250-387-2307

From: Fenton, Chrystal EAO:EX
Sent: Friday, June 24, 2016 4:22 PM
To: Carr, Michelle EAO:EX
Subject: FW: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting
Here is the information on Monday's meeting that Wilf invited you to.

From: Bangert, Wilf R NRTS:EX
Sent: Friday, June 24, 2016 4:20 PM
To: NRTS NRPP Steering Committee
Cc: NRTS NRPP Steering Committee Assistants; Grant, Nelson T NRTS:EX; Medd, Andrew NRTS:EX
Subject: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting
Hello ADM Steering Committee members,
As discuss at the last Steering Committee meeting, we have schedule a meeting for this Monday (June 27th) to further discuss the Sector Operating Model and Authorization Workflow projects. Attached is the agenda for the meeting.
In the session, we will be asking you to validate the design principles that will set the direction for our effort and your engagement in these projects. This work will define the meaning of 'sector transformation' by documenting a model that will enable its implementation. It will identify overlaps, redundancies and other opportunities for leaning, standardizing and optimizing sector operations.
The meeting will also be covering a proposed NRS Authorization Workflow engagement model.
In addition to Monday's meeting we also have few other **key asks** from you:
Sector Operating Model (and Blueprint)

- Be available over the next 2-3 weeks for a 30 minute overview session on the blueprint and another 30 minute interview on the Sector Operating Model
- Nominate a Subject Matter Expert within your business area (at a decision-making level) who should be included in several design workshops (first workshop at end of July)

Authorization Workflows

- Nominate a Subject Matter Expert within your business area (at a decision-making level) who should be included in a five day Authorization Workflows workshop to be held late September /early October

Looking forward to the meeting and the discussions.
Regards,
Wilf Bangert
Assistant Deputy Minister | NRS Transformation & NRPP
Natural Resource Sector Transformation Secretariat
Phone: 250. 387.6096 | Fax: 250.952.0821
(E): Wilf.R.Bangert@gov.bc.ca
Learn more: Natural Resource Permitting Project

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 12:44 PM
To: Kapac de Frias, Martina E ENV:EX; Knudsen, Mark ENV:EX
Cc: Jardine, Kevin EAO:EX; Loiacono, Sabrina EAO:EX; Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
Subject: FYI: Updated IN Roberts_Bank_Terminal Federal Panel
Attachments: IN_EAO_Roberts_Bank_Terminal_2_27Jun2016.docx

Hi Martina/Mark,

Attached is an updated IN updating the work of the federal panel and the Province's participation in an orientation session tomorrow in Vancouver. EAO is co-ordinating participation by the Province and the Province is participating in the federal review to ensure that provincial interests are considered.

Sabrina, would you kindly update the sharepoint site, please.

ROBERTS BANK TERMINAL 2

- On May 31, 2016, the Federal Minister of Environment and Climate Change, appointed a three-member Review Panel to conduct the environmental assessment of Vancouver Fraser Port Authority's proposed Roberts Bank Terminal 2 project.

- The Panel has requested Provincial Agency participation in an orientation session June 28th, in Vancouver. British Columbia will participate in the federal review to ensure that provincial interests are considered.

- British Columbia will rely principally on the federal panel review for the environmental assessment for the Roberts Bank Terminal 2 project, given that most aspects of the project fall within federal jurisdiction.

- British Columbia is committed to "one project, one process" to reduce regulatory duplication. To that end, we have coordinated our approach with the Canadian Environmental Assessment Agency to include areas of provincial interest into the terms of reference for the federal panel. We are confident that the federal panel will complete a robust and effective environmental assessment with significant opportunities for public participation.

- Following the completion of the federal review, British Columbia retains the ability to conduct additional assessments. We may also add conditions to any provincial approvals, if required.

Background:

- On May 31, 2016, Ms. Jocelyne Beaudet was appointed as the Chair of the Review Panel. Dr. Diana Valiela and Dr. David Levy were appointed as members of the Review Panel (biographies attached).
- On June 9, 2016, the Review Panel requested provincial participation in the Panel process and a description of provincial legislative mandates and expertise in relation to the Roberts Bank Terminal 2 (RBT2) environmental assessment (EA). The Environmental Assessment Office (EAO) worked with provincial agencies to draft a response to the Panel on behalf of the Province.
- On June 28, 2016 the Review Panel is holding an RBT2 orientation session with federal and provincial agencies. The session will be live webcasted with the proceedings transcribed and posted on the Canadian Environmental Assessment Agency (CEAA) registry. Although the session is open to the public only the Panel will be able to ask questions. Details on the orientation session are attached.
- Vancouver Fraser Port Authority (VFPA) is proposing to build a new, three-berth marine container terminal at Roberts Bank in Delta that would provide additional capacity of 2.4 million twenty-foot equivalent units of containers per year. The project would involve widening and creating additional land area at the seaward end of the existing causeway. The project is located in an area of extensive First Nations territorial overlap and in the vicinity of Tsawwassen Treaty Settlement Lands.
- On January 7, 2014, CEAA announced that the EA of the RBT2 project would be conducted by an independent federal review panel. The project triggers a provincial EA as a new marine terminal that involves dredging of more than two hectares of submerged land.
- Anticipated key issues include: impacts to fish habitat from the construction of the terminal; impacts on marine mammals and migratory birds; and effects related to increases in road, ship and rail transport.
- The majority of anticipated effects and mitigation measures are within federal jurisdiction. To avoid duplication and to ensure one efficient and effective EA, the Province will use the outcome of the federal review panel. Following completion of the federal process, the Province will review the panel's recommendations and make a decision as to whether further assessment is required to address matters of provincial interest. On December 19, 2014, the Minister of Environment approved an order under Section 14 of the *Environmental Assessment Act* that sets out this approach to the provincial assessment.
- The Panel Terms of Reference (TOR) includes provisions that the EA must take into account: 1) environmental effects of marine shipping beyond the care and control of the proponent; and 2) the potential economic, social, heritage and health effects of the project, including cumulative effects (Provincial Factors).
- This is a federal-only review panel under the *Canadian Environmental Assessment Act, 2012* which requires Panel members fulfill its mandate within 14 months including:
    - Stage 1- Sufficiency review of the Environmental Impact Statement (Provincial input required)
    - Stage 2- Conduct a public hearing (Provincial input maybe required)
    - Stage 3- Prepare and submit a report to the Minister
    - There is a post-panel phase of five months for a federal decision (which can be extended by three months at the discretion of the federal minister)
    - The Executive Director of EAO will consider the panel's report during the five-month post-panel phase to inform his recommendation to the provincial ministers (which will happen within 30 days of the federal decision)

Communications Contact:	Nicile Vinette	250 356-5311
Program Area Contact:	Monica Perry	250 387-2402

Roberts Bank Terminal 2 Project - Establishment of Review Panel - Biographical Notes

Ms. Jocelyne Beaudet—Panel Chair

Jocelyne Beaudet is a communications consultant with more than thirty years of experience in various fields related to the environment and public participation. She holds a Bachelor's degree in physical anthropology from the University of Montréal and a Master's degree in cultural anthropology from McGill University. She resides in Lunenburg, Nova Scotia.

Ms. Beaudet has developed communications plans and public consultation strategies for numerous environmental initiatives. As a consultant, she has advised the Office of the Auditor General of Canada on issues related to the Canadian North, organized strategies on climate change and air pollution, and advised the Task Force on Sustainable Transportation for the National Round Table on the Environment and the Economy. While working for Tecsult Inc., she developed communications and public consultation plans for transportation and mining projects in Quebec and Africa.

Ms. Beaudet has extensive experience undertaking public consultation as a panel member for federal, provincial and municipal environmental agencies. She served as a member of the Joint Review Panel for the Site C Clean Energy Project, the Darlington New Nuclear Power Plant Project, the Eastmain 1-A/Rupert Hydroelectric Project and as the Provincial Executive Co-Secretary of the Joint Review Panel for the Lachine Canal Decontamination Project. She has served both as a member and as a chair on panels for the Bureau d'audiences publiques sur l'environnement du Québec and for the Office de consultation publique de Montréal. Several of her mandates addressed Indigenous interests and issues.

Dr. Diana Valiela—Panel Member

Dr. Diana Valiela obtained her law degree from the University of British Columbia and also holds a Ph.D. and Master's degree in zoology from Duke University and a Bachelor's degree in biological sciences from Rutgers University. She has resided in Vancouver since 1973.

Dr. Valiela's employment and business experience includes independent legal practice; associate, partner, and counsel at Lawson Lundell LLP; academia (adjunct professor, University of British Columbia Faculty of Law) and consultancy (Ambio Associated). Dr. Valiela has also worked with the Research and Ecotoxicology Division and the Water Quality and Environmental Quality Objectives Division of Environment Canada, Pacific and Yukon Region.

Dr. Valiela has served on numerous boards, panels and committees including the public review panel on the Federal Moratorium on B.C. Offshore Oil and Gas in 2003-2004 and as a member of the National Energy Board. She has published extensively and has made presentations on the topics of resource development and regulation; water management, regulations and quality; ecosystems and biota of the Fraser River Estuary; and environmental assessment legislation, application and methodology.

Dr. David Levy—Panel Member

Dr. David Levy is the President of Levy Research Services Ltd. in North Vancouver. He has more than 30 years of experience providing independent scientific and management advice in fisheries and applied aquatic ecology. Dr. Levy has a Ph.D. and a Master's degree in Fisheries Biology from the University of British Columbia and a Bachelor's degree in Marine Biology from McGill University.

Dr. Levy has provided consulting services in fisheries management, environmental impact assessment, meeting facilitation, environmental planning and monitoring, integrated coastal management and watershed management. He has worked in the Fraser Estuary and the Salish Sea for many years. His clients have included the University of British Columbia, CP Rail, Vancouver Airport Authority, the federal government and First Nations.

Dr. Levy provided expert advice to the Cohen Commission of Inquiry into the Decline of Sockeye Salmon in the Fraser River and the Nechako Fisheries Conservation Program. He has provided technical, strategic and planning services to a number of First Nations organizations and communities and to a variety of non-governmental organizations. In the discipline of environmental assessment, he worked with the Pembina Institute to review the potential construction and operational impacts of the Enbridge Gateway project on salmon populations and provided advice to Mining Watch Canada concerning aquatic impacts from proposed and approved mining projects in Northern BC, including a submission to the Joint Review Panel for the Kemess North Project.

Roberts Bank Terminal 2 Project Orientation Session

The Review Panel invites the public to attend, or observe via webcast, an orientation session where information will be provided by federal and provincial bodies that have a mandate and expertise in relation to the proposed Project and its potential environmental effects. The Project Proponent, the Vancouver Fraser Port Authority, will provide an overview of its responsibilities as they relate to marine activities. Although participants and the public will not have an opportunity to ask questions during the session, follow-up questions may be sent to the Panel for its consideration.

The Review Panel intends to provide a live webcast of the orientation session and to archive the video recording. A transcript of the proceedings will be posted on the Registry following the session. The orientation session will be held on Tuesday, June 28, 2016 from 9:00 am - 5:00 pm local time at Simon Fraser University - Segal Building, 500 Granville Street, Vancouver.

Please access the webcast at: http://events.xelivebroadcast.com/events/june28robertsbankterminal2/

The webcast viewing instructions are available at: http://xelivebroadcast.com/instructions/

The draft schedule for the orientation session is posted on the Registry at: http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

Pizarro, Kirsten EAO:EX

From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 11:58 AM
To: Scraba, Erin H EAO:EX
Cc: Craven, Paul EAO:EX
Subject: RE: EAO Capacity Funding Draft 2

s.12

Many thanks.

From: Scraba, Erin H EAO:EX
Sent: Monday, June 27, 2016 11:46 AM
To: Perry, Monica EAO:EX
Cc: Craven, Paul EAO:EX
Subject: FW: EAO Capacity Funding Draft 2

Further to my comment around the conditions attached to our budget lift in 2014, please keep Cheryl in the loop around decisions to change the capacity funding structure and allocation. We may be asked to report back to Treasury Board at some point.

e

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 11:16 AM
To: EAO Executive Project Directors; EAO Managers; Bates, Julia EAO:EX
Subject: EAO Capacity Funding Draft 2

Good morning, as discussed at OMT please find attached the EAO Capacity Funding document for your information and/or comment (to Monica).

Thanks
Chrystal

Pizarro, Kirsten EAO:EX

From: Scraba, Erin H EAO:EX
Sent: Monday, June 27, 2016 11:46 AM
To: Perry, Monica EAO:EX
Cc: Craven, Paul EAO:EX
Subject: FW: EAO Capacity Funding Draft 2
Attachments: EAO Capacity Funding Draft 2.docx

Further to my comment around the conditions attached to our budget lift in 2014, please keep Cheryl in the loop around decisions to change the capacity funding structure and allocation. We may be asked to report back to Treasury Board at some point.

e

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 11:16 AM
To: EAO Executive Project Directors; EAO Managers; Bates, Julia EAO:EX
Subject: EAO Capacity Funding Draft 2

Good morning, as discussed at OMT please find attached the EAO Capacity Funding document for your information and/or comment (to Monica).

Thanks
Chrystal

EAO Capacity Funding for participation in Environmental Assessments:

Funding Overview:
EAO's budget increased in 2014/15 to address increased demand for environmental assessments. 750K was offered to agencies to facilitate effective participation in EAs and to assist with the development of guidance and other tools in support of EA reviews. Criteria include:

1. EA dedicated positions
2. Addressing "pinch points"
3. streamlining or process improvements

Outcomes of 2015/15:

- 7 Ministry Positions (5 MOE and 2 FLNRO)
- 5 Project "pinch points" (Blackwater, Murray River, Garibaldi at Squamish, Sukunka and Giscome)
- 6 Guidance and Process Improvement Initiatives ("Legacy Projects")

2016/17 Direction:
Report out at NRS ADMs confirmed the principles for a cross agency working group / steering committee to do the following:

1. Identify anticipated workloads/resource trends
2. Establish a prioritized "project" list – focus on "legacy projects" that would provide process improvements – i.e. What are the bigger pieces that we can fix to support improvements to the EA process.
3. Ensure agency/EAO accountable persons identified as leads who report back to the steering committee and their accountable ADM.

Current Commitments:

- ENV funding provided for bridge funding of key positions ($32,000)
- EAO funding for focused positions ($201,531)
- Elk Valley (BRE Hatfield contract) hydrogeology work ($9,852)
- Remaining $506,617

ED Capacity Steering Committee:
Group met on June 16, 2016 and agreed on overall theme of "proponent readiness" in providing better guidance to proponents to ensure more effective and efficient use of provincial staff time.

Next steps:
ED Steering Committee to clarify and prioritize project list this week. Once candidate projects are confirmed accountable ED and EAO rep will create a workplan for each approved project that sets out purpose (outcomes to be achieved), deliverables, timelines and leads. Candidate projects identified and organized under the following categories:

Category A: "Readiness"
Category B: "Other
Category C: Staffing positions

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s.13

Page 0769

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s.13

Pizarro, Kirsten EAO:EX

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 11:29 AM
To: Craven, Paul EAO:EX
Cc: Rennert-May, Leya EAO:EX
Subject: FW: MATERIALS ATTACHED: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting
Attachments: NRPP_SCMeeting_2016_06_27 -AGENDA.pdf; NRPP-SOM_ADM-Discussion-Deck_FINAL.PPTX; Appendix -NRS Authorization Workflow -Workshop-Proposal-v9.pptx; Appendix -NRS Authorization Workflow Model UN Information Sheet v2.docx

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From: Turner, Sara J NRTS:EX **On Behalf Of** Bangert, Wilf R NRTS:EX
Sent: Monday, June 27, 2016 11:26 AM
To: NRTS NRPP Steering Committee
Cc: NRTS NRPP Steering Committee Assistants; Grant, Nelson T NRTS:EX; Medd, Andrew NRTS:EX
Subject: MATERIALS ATTACHED: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting

Hello all,

Attached, you will find materials for this afternoon's meeting.

Regards,

Wilf Bangert

Assistant Deputy Minister | NRS Transformation & NRPP
Natural Resource Sector Transformation Secretariat
Phone: 250. 387.6096 | Fax: 250.952.0821
(E): Wilf.R.Bangert@gov.bc.ca

Learn more: Natural Resource Permitting Project

From: Bangert, Wilf R NRTS:EX
Sent: Friday, June 24, 2016 4:20 PM
To: NRTS NRPP Steering Committee
Cc: NRTS NRPP Steering Committee Assistants; Grant, Nelson T NRTS:EX; Medd, Andrew NRTS:EX
Subject: Monday's "Focus on Sector Operating Model" ADM Steering Committee meeting

Hello ADM Steering Committee members,

As discuss at the last Steering Committee meeting, we have schedule a meeting for this Monday (June 27th) to further discuss the Sector Operating Model and Authorization Workflow projects. Attached is the agenda for the meeting.

In the session, we will be asking you to validate the design principles that will set the direction for our effort and your engagement in these projects. This work will define the meaning of 'sector transformation' by documenting a model that will enable its implementation. It will identify overlaps, redundancies and other opportunities for leaning, standardizing and optimizing sector operations.

The meeting will also be covering a proposed NRS Authorization Workflow engagement model.

In addition to Monday's meeting we also have few other **key asks** from you:

Sector Operating Model (and Blueprint)

- Be available over the next 2-3 weeks for a 30 minute overview session on the blueprint and another 30 minute interview on the Sector Operating Model
- Nominate a Subject Matter Expert within your business area (at a decision-making level) who should be included in several design workshops (first workshop at end of July)

Authorization Workflows

- Nominate a Subject Matter Expert within your business area (at a decision-making level) who should be included in a five day Authorization Workflows workshop to be held late September /early October

Looking forward to the meeting and the discussions.

Regards,

Wilf Bangert

Assistant Deputy Minister | NRS Transformation & NRPP
Natural Resource Sector Transformation Secretariat
Phone: 250. 387.6096 | Fax: 250.952.0821
(E): Wilf.R.Bangert@gov.bc.ca

Learn more: Natural Resource Permitting Project

Agenda

Topic	Time
Welcome and Introductions	10 mins, 1:00-1:10
Overview – Blueprint, Operating Model, and Process Workflow	20 mins, 1:10-1:30
Transformation Principles Discussion	20 mins, 1:30-1:50
Sector Operating Model	20 mins, 1:50-2:10
Authorization Workflow Engagement Model	20 mins, 2:10-2:30

Page 0773 to/à Page 0810

Withheld pursuant to/removed as

DUPLICATE

Pizarro, Kirsten EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 11:28 AM
To: Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX
Cc: Craven, Paul EAO:EX; Bohn, Dominique EAO:EX; Carter, Rumon EAO:EX; Fenton, Chrystal EAO:EX; Rennert-May, Leya EAO:EX
Subject: RE: Clean Energy BC

Clean Energy BC was invited to participate in an EPIC briefing that was set up with IAIA and their affiliates. They have opted to participate in the joint briefing instead of having a standalone briefing. I will take the hold out of your calendars. Please let me know if you have any questions.

Kind regards,
S.

From: Jardine, Kevin EAO:EX
Sent: Thursday, June 23, 2016 12:24 PM
To: Carr, Michelle EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Bohn, Dominique EAO:EX; Carter, Rumon EAO:EX; Fenton, Chrystal EAO:EX; Rennert-May, Leya EAO:EX
Subject: Re: Clean Energy BC

Good idea...

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 23, 2016, at 10:50 AM, Carr, Michelle EAO:EX <Michelle.Carr@gov.bc.ca> wrote:

> Monica should attend with me.
>
> **Michelle Carr** | Assistant Deputy Minister
> Environmental Assessment Operations, Environmental Assessment Office
> Phone: 250-387-2307

> **From:** Loiacono, Sabrina EAO:EX
> **Sent:** Thursday, June 23, 2016 10:49 AM
> **To:** Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX; Craven, Paul EAO:EX; Bohn, Dominique EAO:EX; Carter, Rumon EAO:EX
> **Cc:** Fenton, Chrystal EAO:EX; Rennert-May, Leya EAO:EX
> **Subject:** Clean Energy BC

Just a heads up that Clean Energy BC has confirmed that they would like a briefing on EPIC. They have indicated that July 14th at 10-11:30am works on their end. I have put a hold in both Rumon and Michelle's calendar. Please let me know if you would like anyone else to attend.

S.

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Pizarro, Kirsten EAO:EX

From: Bohn, Dominique EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: Milne, Andrew EAO:EX; Cousins, Autumn EAO:EX
Cc: Craven, Paul EAO:EX
Subject: C+E Toolset

Hi Drew and Autumn,

How ARE those MacBooks and iPhones working out for you guys? As we are getting close to EPIC launch and I'm wrapping up the ESM project s.22), I wanted to loop back to you on this make sure your team is ready and feeling confident with the new tools. The benefits will be most obvious as you work creating reports in new EPIC, but the hope was to have all the other business functions solid on these tools first.

I tried to find some time in our calendars but it seems almost impossible, so hoping that you can get back to me.

1. Can you confirm that you wish to proceed using the MacBooks for the whole team, and that other computers can now be returned?
2. Same for iPhones — confident with these as replacement for both iPads and other phones?
3. Are there concerns or challenges we need to work with shared services to address? (if yes, please fire them at me)

Much thanks,

Dom

Dominique Bohn
Executive Director, Service Reform
Ministry of Environment | Environmental Assessment Office
text + talk: 250.507.4791 | dominique.bohn@gov.bc.ca

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 10:00 AM
To: Scraba, Erin H EAO:EX
Subject: Re: Manager, Policy EOI

Exactly.

Sent from my iPhone

On Jun 27, 2016, at 9:00 AM, Scraba, Erin H EAO:EX <Erin.Scraba@gov.bc.ca> wrote:

> Ideally in early August to allow for cross over time with me, but I imagine exact date is negotiable with Paul. The fact that this is an internal TA should allow for continuation of some critical ongoing files as well.
>
> **From:** Weaver, Colleen EAO:EX
> **Sent:** Monday, June 27, 2016 8:55 AM
> **To:** Scraba, Erin H EAO:EX; Craven, Paul EAO:EX
> **Subject:** Manager, Policy EOI
> Hi Paul and Erin,
> I have received a question from a staff member regarding when the start date for the Manager Policy, TA would be- do you have any thoughts on a start date right now?
> Thanks!
> Coll
> *Colleen Weaver, Business Services Coordinator*
> Ph: (250) 387-9400 | Email: Colleen.Weaver@gov.bc.ca
> Please consider the environment before printing this message

Pizarro, Kirsten EAO:EX

From: Scraba, Erin H EAO:EX
Sent: Monday, June 27, 2016 8:38 AM
To: Craven, Paul EAO:EX
Subject: RE: EAO stakeholders

Has it been formally decided that Sabrina will support stakeholder tracking? I'd assumed it would be Kirsten.

From: Carter, Rumon EAO:EX
Sent: Sunday, June 26, 2016 3:39 PM
To: Scraba, Erin H EAO:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX
Cc: Craven, Paul EAO:EX
Subject: RE: EAO stakeholders

Plus 1 on Cory's gratitude, Erin. Related, as with all things, I've been working to wrap my head around the Office's approach to engagement – and, specifically, it's tracking and reporting – assisted in this by Sabrina. At our mutual convenience, I'm going to look for a time to get the four of us together to get onto the same page – i.e. to add me to your already-established page.

Rumon Carter
Mobile: (250) 508-4307

From: Scraba, Erin H EAO:EX
Sent: Friday, June 24, 2016 5:18 PM
To: Joyce, Tonja ABR:EX
Cc: Waters, Cory EAO:EX; Carter, Rumon EAO:EX; Craven, Paul EAO:EX
Subject: EAO stakeholders

Hi Tonja,

EAO engages with the following ENGO stakeholders:

Name	Contact Name	Contact info
West Coast Environmental Law	Note: while you have a media contact for WCEL listed below, we normally engage with: Jessica Clogg Executive Director	Jessica.clogg@wcel.org
Uvic Environmental Law Centre	Holly Pattison Paralegal Administrator	elc@uvic.ca
Uvic Geography	Dr. Cam Owens Assistant Professor, Geography	camo@uvic.ca
Sierra Club, BC	Bob Peart Executive Director	bob@sierraclub.bc.ca
Organizing for Change	Lisa Matthaus Executive Director	lisa@organizingforchange.org
Columbia Mountain Institute of Applied Ecology	Hailey Ross Executive Director	office@cmiae.org

As Cory mentioned, we also engage with general business, sector-specific groups and some professional associations:

Name	Contact	Contact info
First Nations Energy and Mining Council	Paul Blom	- http://fnemc.ca/contact/
Union of BC Municipalities	Jared Wright	jwright@ubcm.com
BC Business Council	Denise Mullen Director, Environment and	denise.mullen@bcbc.com

	Sustainability	
Association for Mineral Exploration of BC	Glen Wonders Vice President – Technical & Government Affairs	gwonders@amebc.ca
Clean Energy BC	Paul Kariya Executive Director	paul.kariya@cleanenergybc.org
BC Stone, Sand and Gravel Association	Paul Allard Executive Director	Gravelbc@telus.net
Canadian Association of Petroleum Producers	Geoff Morrison Manager, BC Operations	geoff.morrison@capp.ca
Canadian Energy Pipeline Association	Sonya Savage Senior Director, Policy & Regulatory Affairs	ssavage@pipelines.ca
Canadian Wind Energy Association	Jean-Francois Nolet Vice-President – Policy and Government Affairs	jfnolet@canwea.ca
BC LNG Alliance	Jas Johal Director of Communications	Jas.johal@bclng.ca
Mining Association of BC	Karina Briño President & CEO	KBrino@mining.bc.ca
International Association for Impact Assessment (Western Canada chapter)	Jeff Matheson	jeff@capstoneenvironmental.ca
College of Applied Biology	Pierre Iachetti Executive Director	executivedirector@cab-bc.org

From: Waters, Cory EAO:EX
Sent: Wednesday, June 22, 2016 7:41 AM
To: Joyce, Tonja ABR:EX; Carter, Rumon EAO:EX; Scraba, Erin H EAO:EX
Cc: Armstrong, Bill N ABR:EX; Williams, Bryan ENV:EX; Craven, Paul EAO:EX
Subject: RE: For confirmation: ministry stakeholder contact information

Thanks Tonja,

I can confirm being the EAO lead contact to receive the "head's up", and will re-route notices internal. In addition, we would like Rumon Carter, Executive Director, Service Reform to also be added to the distribution list for EAO.

Erin Scraba will identify additional E/NGO contacts and I request she provide those to you directly.

EAO's breadth goes beyond environment as you'll appreciate, and other key stakeholders and industry groups will undoubtedly be on your list. EAO would appreciate being notified and potentially involved in meetings with Mining Association of BC, BC Business Council, energy organizations including renewable sector (Renewable Energy BC) contacts as well. We hope to engage the latter this summer in advance of the All Chiefs meeting in September to apprise them of our work to date and future plans to discuss engagement with First Nations Energy and Mining Council.

Cory Waters
Director, First Nations Engagement
Environmental Assessment Office
p: 250-387-0236 c: 250-812-4751

From: Joyce, Tonja ABR:EX
Sent: Wednesday, June 15, 2016 3:06 PM
To: Williams, Bryan ENV:EX; Waters, Cory EAO:EX
Cc: Armstrong, Bill N ABR:EX
Subject: RE: For confirmation: ministry stakeholder contact information

Also, can I add this one to the list for you to check? Sorry to have missed this last night.

Thanks,

Tonja

Wildlife	Ministry: Environment	BC Wildlife Federation	Rod Wiebe,	Phone: 604-882-9988	101-

	Bryan Williams, Manager, First Nations Relations Phone: 250 847-7723 E: Bryan.Williams@gov.bc.ca Environmental Assessment Office: Cory Waters, Director, First Nations Engagement Phone: 250 387-0236 E: Cory.Waters@gov.bc.ca		Aboriginal Relations Committee	Toll free 1-888-881-2293 E: officeinfo@bcwf.bc.ca E: s.22	
		Guide Outfitters Association of BC	Darren DeLuca Aboriginal Chair	Phone: 604-278-2688 Fax: 604-278-3440	

From: Williams, Bryan ENV:EX
Sent: Wednesday, June 15, 2016 8:34 AM
To: Joyce, Tonja ABR:EX
Cc: Waters, Cory EAO:EX
Subject: FW: For confirmation: ministry stakeholder contact information
FYI
I'll get back to you by the end of this week if that's ok.
Thanks,
Bryan

From: Williams, Bryan ENV:EX
Sent: Wednesday, June 15, 2016 8:29 AM
To: Ranson, David ENV:EX; Standen, Jim ENV:EX; Austad, Bob ENV:EX; Paquin, Lisa C ENV:EX
Subject: FW: For confirmation: ministry stakeholder contact information
Good Morning,
MARR is looking for MOE contacts as outlined below. At this point I am thinking that I am the most appropriate contact for BC Parks, Corey Waters would be the contact for EAO, and Lisa Paquin would be the contact for the rest of our agency. This is subject to your thoughts of course.
As for executive MOE lead, would that be David, Fern, or Anthony?
I've already canvassed BC Parks staff about the table below. The Lands Trust is one group that appears to be missing from the table, but there may be more.
Thanks,
Bryan

From: Joyce, Tonja ABR:EX
Sent: Tuesday, June 14, 2016 4:36 PM
To: Waters, Cory EAO:EX; Williams, Bryan ENV:EX
Cc: Armstrong, Bill N ABR:EX
Subject: For confirmation: ministry stakeholder contact information
Hi Cory (it's been too long) and Bryan,
As a part of MARR's stakeholder outreach activities during First Nations' negotiations or initiatives, MARR staff may be reaching out to provincial agencies that work closely with other ministries. Before staff engage with these organizations, we are asking them to give provincial ministry lead contacts a head's up. Would you both be the most appropriate contact? Is there an appropriate executive lead as well? Are there any other environment/NGO stakeholders that we should include or delete. Please confirm who you would like on our list.

Environment	Environment Bryan Williams, Manager, First Nations Relations Phone: 250 847-7723 E: Bryan.Williams@gov.bc.ca Environmental Assessment Office: Cory Waters, Director, First Nations Engagement Phone: 250 387-0236 E: Cory.Waters@gov.bc.ca	British Columbia Sustainable Energy Association	Executive Director, Ali Grovue	Phone: 604.3 E: info@bcse
		Canadian Parks & Wilderness Society (CPAWS) - British Columbia Chapter	Kate MacMillan, Community Engagement Coordinator	Phone: 604-6 E: info@cpav
		Dogwood Initiative	Lyndsey Easton, Communications Coordinator	Phone: 250-3 E:lyndsey@d
		Ecojustice Vancouver Office	Darcie Bennett Director of Communications and	Phone: 604-6 E: info@ecoj

			Marketing	
		Fraser Basin Council	Colin Hansen, Chair	Phone: 604-4 E: info@frase
		Outdoor Recreation Council of BC	Dennis Webb, Chair	Phone: 604-8 E: outdoorrec
		Sierra Club of BC	Tim Pearson, Director, Communications	Phone: 250-3 E: tim@sierra
		West Coast Environmental Law	Anjali Appadurai, Communications & Engagement Specialist	Phone: 604-3 E: admin@wc

Thanks,
Tonja

Tonja Joyce
Director Third Party Engagement
Ministry of Aboriginal Relations and Reconciliation
Phone: 250-387-4413
Cell: 778-679-0944

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 8:19 AM
To: EAO Executive Project Directors
Cc: Carr, Michelle EAO:EX; Scraba, Erin H EAO:EX; Fenton, Chrystal EAO:EX; Cheema, Kashmiro K EAO:EX; Craven, Paul EAO:EX
Subject: Amendment Guidance
Attachments: Amendment Report Template_May_2016.docx; Certificate Amendments- Staff Procedures June 2015 New Format (KKC).docx; Certificate Holder Guidance - Amendments to EAC_June 2016.docx

Hello all,

s.13

If you have questions, please let me know.

Paul

Page 0821 to/à Page 0837

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Page 0838 to/à Page 0846

Withheld pursuant to/removed as

s.13

Pizarro, Kirsten EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 8:14 AM
To: Rennert-May, Leya EAO:EX
Subject: IN_EAO_Roberts_Bank_Terminal_2_24Jun2016 (2)
Attachments: IN_EAO_Roberts_Bank_Terminal_2_24Jun2016 (2).docx

Would you please accept the changes and format please. I would like to send this up to MO this morning.

Paul

Page 0848 to/à Page 0851

Withheld pursuant to/removed as

DUPLICATE

Pizarro, Kirsten EAO:EX

Subject:	Meeting Forward Notification: Federal Regulatory Review Process (EA and NEB)
Location:	EAO R 1st Floor Large Boardroom EAO:EX/ Teleconference
Start:	Thu 2016-07-07 3:00 PM
End:	Thu 2016-07-07 4:00 PM
Recurrence:	(none)
Organizer:	Scraba, Erin H EAO:EX

Your meeting was forwarded

Scraba, Erin H EAO:EX has forwarded your meeting request to additional recipients.

Meeting

Federal Regulatory Review Process (EA and NEB)

Meeting Time

July-07-16 3:00 PM-4:00 PM.

Recipients

Russell, Jim AGRI:EX

All times listed are in the following time zone: (UTC-08:00) Pacific Time (US & Canada)

Sent by Microsoft Exchange Server 2013

Pizarro, Kirsten EAO:EX

Subject:	Fwd: IGR Community of Practice
Location:	Auditorium A/B, HLTH, Basement, 1515 Blanshard St
Start:	Wed 2016-07-27 9:30 AM
End:	Wed 2016-07-27 11:30 AM
Show Time As:	Tentative
Recurrence:	(none)
Organizer:	Haney, Donald IGRS:EX

Erin,

Can you see if you can attend this as I will be in Ottawa that day.

Paul

Sent from my iPhone

Begin forwarded message:

From: "Haney, Donald IGRS:EX" <Donald.Haney@gov.bc.ca>
To: "Hrycuik, Lorie AGRI:EX" <Lorie.Hrycuik@gov.bc.ca>, "Easton, Joan E AGRI:EX" <Joan.Easton@gov.bc.ca>, "Brown, Susan B AVED:EX" <Susan.B.Brown@gov.bc.ca>, "Wood, Gillian CSCD:EX" <Gillian.Wood@gov.bc.ca>, "Bamford, Kevena EDUC:EX" <Kevena.Bamford@gov.bc.ca>, "Lesiuk, Tim ENV:EX" <Tim.Lesiuk@gov.bc.ca>, "Danks, Anthony ENV:EX" <Anthony.Danks@gov.bc.ca>, "Craven, Paul EAO:EX" <Paul.Craven@gov.bc.ca>, "Molnar, Rory FIN:EX" <Rory.Molnar@gov.bc.ca>, "Rowe, Katherine FLNR:EX" <Katherine.Rowe@gov.bc.ca>, "Ewing, Rebecca J FLNR:EX" <Rebecca.Ewing@gov.bc.ca>, "Phelps, Blair GCPE:EX" <Blair.Phelps@gov.bc.ca>, "Marr, Ann HLTH:EX" <Ann.Marr@gov.bc.ca>, "Lee, Sherri JAG:EX" <Sherri.Lee@gov.bc.ca>, "Sharma, Rishi JTST:EX" <Rishi.Sharma@gov.bc.ca>, "Nicholls, Cloe JTST:EX" <Cloe.Nicholls@gov.bc.ca>, "Cocco, Angelo JTST:EX" <Angelo.Cocco@gov.bc.ca>, "Little, Andrew JTST:EX" <Andrew.Little@gov.bc.ca>, "Puggioni, Giovanni ABR:EX" <Giovanni.Puggioni@gov.bc.ca>, "Miles, Barbara S ABR:EX" <Barbara.Miles@gov.bc.ca>, "Chatwin, Ann MCF:EX" <Ann.Chatwin@gov.bc.ca>, "Marshall, Fraser MEM:EX" <Fraser.Marshall@gov.bc.ca>, "Ahn, Sohee MIT:EX" <Sohee.Ahn@gov.bc.ca>, "Calder, Kursti D MNGD:EX" <Kursti.Calder@gov.bc.ca>, "Gow, Lisa A TRAN:EX" <Lisa.Gow@gov.bc.ca>, "Marr, David TRAN:EX" <David.Marr@gov.bc.ca>, "Filmer, Cam A TRAN:EX" <Cam.Filmer@gov.bc.ca>, "Duffy, Chris D TRAN:EX" <Chris.Duffy@gov.bc.ca>, "Smith, Grant H IGRS:EX" <Grant.H.Smith@gov.bc.ca>, "Periwal, Sukumar IGRS:EX" <Sukumar.Periwal@gov.bc.ca>, "Hewitt, Jeremy IGRS:EX" <Jeremy.Hewitt@gov.bc.ca>, "Sigurdson, Judi IGRS:EX" <Judi.Sigurdson@gov.bc.ca>, "Langdon, Sarah IGRS:EX" <Sarah.Langdon@gov.bc.ca>, "Van Dyck, Brad IGRS:EX" <Brad.VanDyck@gov.bc.ca>
Subject: IGR Community of Practice

Dear Colleague,

The Intergovernmental Relations Secretariat will be hosting an IGR Community of Practice meeting on Wednesday, July 27th from 9:30-11:30am at 1515 Blanshard Street. We hope that you will join us in person for this meeting, which will include updates on a number of intergovernmental files, along with an opportunity for ministries to provide a brief update on their respective intergovernmental files.

If you are unable to attend in-person, dial-in information is included on the agenda. If you wish to send a colleague in your place, please advise Sarah Langdon at Sarah.Langdon@gov.bc.ca<mailto:Sarah.Langdon@gov.bc.ca> and we will provide an updated list of attendees to security.

Please find attached the meeting agenda. I look forward to seeing you soon.

Regards,

Don Haney



Agenda - July 27 2016 COP.PDF

Page 0855 to/à Page 0927

Withheld pursuant to/removed as

s.3

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 8:04 AM
To: Craven, Paul EAO:EX
Subject: Re: FOR REVIEW: Update IN_EAO_Roberts_Bank_Terminal_2_24Jun2016

Thx, Paul. Can we make reference in the fourth bullet to the fact that we have coordinated our approach with CEAA to include areas of provincial interest into the ToR for the panel?

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 27, 2016, at 8:00 AM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:

> Here is an updated IN for Roberts Bank in anticipation of the session tomorrow. Michelle approved before she left. We will circulate to MO following your approval.
>
> Paul
>
> <IN_EAO_Roberts_Bank_Terminal_2_24Jun2016.docx>

Loiacono, Sabrina EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 8:11 AM
To: Jardine, Kevin EAO:EX
Subject: RE: FOR REVIEW: Update IN_EAO_Roberts_Bank_Terminal_2_24Jun2016

Will do. Thanks.

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 8:04 AM
To: Craven, Paul EAO:EX
Subject: Re: FOR REVIEW: Update IN_EAO_Roberts_Bank_Terminal_2_24Jun2016

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>
> Paul
>
> <IN_EAO_Roberts_Bank_Terminal_2_24Jun2016.docx>

Loiacono, Sabrina EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 8:15 AM
To: Jardine, Kevin EAO:EX
Subject: Public Consultation - Brainstorming
Attachments: Environmental Assessment Status Report Illustration.docx; Public Consultation Enhancement Proposals.docx

Kevin,

I would like to go over this with you during our meeting this morning.

Paul

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748

EAO Environmental Assessment Office

Page 0931 to/à Page 0938

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s.13

Loiacono, Sabrina EAO:EX

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 8:30 AM
To: EAO Staff - All
Subject: New Policy: General Policy Application for the EA Act
Attachments: General Policy_Application fo the EA Act_June 2016.docx

Hi everyone,

s.13

Of course, if you have questions about the attached, please do not hesitate to contact me.

Paul

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748

EAO Environmental Assessment Office

Page 0940 to/à Page 0942

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DUPLICATE

Loiacono, Sabrina EAO:EX

From: customerservice@compasscard.ca
Sent: Monday, June 27, 2016 8:39 AM
To: Jardine, Kevin EAO:EX
Subject: Compass Account Creation



RE: Reference Numbe s.17

Hi Kevin Jardine,

You just created a Compass account. That's great! You're on your way to easier transit travel. The next step is to register your card by linking it to your account if you haven't done so already.

Registration has many benefits, including:
- Access to your transaction history
- Balance Protection, in case your card is lost or stolen
- AutoLoad, which allows you to automatically top up your card

You can access your Compass account online at compasscard.ca or by calling 604.398.2042 or 1.888.207.4055.

Your Compass account "Sign in" is s.17

Please do not reply to this email. For more information, visit compasscard.ca or contact Compass Customer Service at 604.398.2042 or 1.888.207.4055.

Thanks for using Compass.



Compass Customer Service 604.398.2042 | 1.888.207.4055 | customerservice@compasscard.ca

You've received this email because it is the address associated with your Compass Account. Privacy Statement



Loiacono, Sabrina EAO:EX

From: customerservice@compasscard.ca
Sent: Monday, June 27, 2016 8:39 AM
To: Jardine, Kevin EAO:EX
Subject: Compass Card Registration



RE: Reference Number s.17

Hi Kevin Jardine,

Thanks for registering your Compass Card. We've completed your request to link s.17 to your Compass account.

Now you have access to your transaction history and your card's balance is protected in the event it's lost or stolen.

For even more convenience, set up AutoLoad, which allows you to automatically top up your card

Please do not reply to this email. For more information, visit compasscard.ca or contact Compass Customer Service at 604.398.2042 or 1.888.207.4055.

Thanks for using Compass.



Compass Customer Service 604.398.2042 | 1.888.207.4055 | customerservice@compasscard.ca

You've received this email because it is the address associated with your Compass Account. Privacy Statement



Loiacono, Sabrina EAO:EX

From: St-Onge,Émilie [CEAA] <Emilie.St-Onge@ceaa-acee.gc.ca> on behalf of Loth-Bown,Christine [CEAA] <Christine.Loth-Bown@ceaa-acee.gc.ca>
Sent: Monday, June 27, 2016 8:47 AM
To: Jardine, Kevin EAO:EX
Subject: Meeting Forward Notification: FW: Phone Call with Christine Loth-Bown and Heather Smith (CEAA)

Your meeting was forwarded

St-Onge,Émilie [CEAA] has forwarded your meeting request to additional recipients.

Meeting

FW: Phone Call with Christine Loth-Bown and Heather Smith (CEAA)

Meeting Time

June 27, 2016 3:30 PM - June 27, 2016 4:30 PM

Recipients

Bailey,Margaret [CEAA],Groulx,Erin [CEAA]

All times listed are in the following time zone: (UTC-05:00) Eastern Time (US & Canada)

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 8:56 AM
To: Zacharias, Mark ENV:EX
Subject: PNW Fish Report
Attachments: rep_pnw_marfish_final_report.pdf

Should you have an interest....

Public

Pacific NorthWest LNG Project
Marine Fish Survey Results: December 2014 to February 2016 Report



Prepared for:
Pacific NorthWest LNG Limited Partnership
Suite 2500 - 666 Burrard Street
Vancouver, BC V6C 3B1

Prepared by:
Stantec Consulting Ltd.
500 – 4730 Kingsway
Burnaby, BC V5H 0C6

May 20, 2016

Acknowledgements

Stantec's team extends our appreciation for the input and participation of team members from Gitxaala Nation, Kitsumkalum First Nation, Kitselas First Nation and Metlakatla First Nation. Undertaking this Program would not have been possible without their input, assistance, and ongoing support.

We also extend our thanks to the captains and crews of the Metlakatla vessel MV *Ocean Star*, the MV *Active Pass*, and their support vessels. Their assistance has been invaluable throughout the Program.

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Abbreviations

#	Number
%	percent
°C	degrees celsius
µS/cm	microsiemens per centimetre
µg/L	micrograms per litre
ADCP	acoustic Doppler current profiler
ASL	ASL Environmental Sciences Inc.
CD	chart datum
CEA Agency	Canadian Environmental Assessment Agency
chl-*a*	chlorophyll *a*
CHS	Canadian Hydrographic Service
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CPUE	catch per unit effort
CRA	commercial, recreational and Aboriginal
CTD	conductivity-temperature-depth
dB	decibels
DFO	Fisheries and Oceans Canada
EIS	Environmental Impact Statement
g	grams
GPS	global positioning system
ha	hectare
LNG	liquefied natural gas
m	metre
mg/L	milligram per litre
mm	millimetres

MOF	materials offloading facility
ms	milliseconds
MVBS	mean volume backscattering strength
n	sample size
NTU	Nephelometric Turbidity Units
PNW LNG	Pacific NorthWest LNG Limited Partnership
PRPA	Prince Rupert Port Authority
PSU	practical salinity unit
RFBD	relative fish biomass density
ROV	remotely operated vehicle
SARA	*Species At Risk Act*
SCOR	Scientific Committee on Oceanic Research
sv	volume backscattering coefficient
Sv	logarithmic of sv
TS	target strength
UTM	Universal Transverse Mercator

1.0 INTRODUCTION

1.1 PROGRAM SCOPE

Pacific NorthWest LNG Limited Partnership (PNW LNG) is proposing to construct and operate a liquefied natural gas (LNG) facility (the Project) on Lelu Island within the District of Port Edward, British Columbia and a marine terminal within Chatham Sound off Lelu Island. The Project would be located on federal lands and waters under the jurisdiction of the Prince Rupert Port Authority (PRPA) on the north coast of British Columbia.

Stantec Consulting Ltd. (Stantec) has designed and implemented a Marine Fish Program (the Program) on behalf of PNW LNG to support collection of information in the Project area about marine fish species abundance and distribution, including timing of fish key life stages. The objectives of the Program were to:

1. Describe the marine biophysical environment (i.e., water properties, zooplankton) in the vicinity of the Project's marine components and survey region (survey region and other key terms used in this report are defined in Table 1)
2. Identify fish and marine invertebrates present in the survey region
3. Identify spatial patterns of distribution, relative abundance, and biological characteristics for fish and marine invertebrates in the survey region
4. Identify temporal patterns of distribution, relative abundance and biological characteristics of fish and marine invertebrates in the survey region
5. Identify salmon smolt prey items through examination of stomach contents
6. Examine possible associations between water column properties and the presence of fish
7. Interpret the patterns of select fish species' habitat use in the survey region

This report expands on two interim data reports submitted to PNW LNG July 9 and November 3, 2015 and is a synthesis of data collected from December 2014 to the end of February 2016.

The material in this report is organized into the following six sections plus appendices, based on the program objectives presented above:

- Introduction with program scope, survey approach, and quality control / quality assurance (Section 1.0)
- Habitat in survey areas with methods, results, and summary (Section 2.0)
- Temporal and spatial distribution of fish and invertebrates caught with methods and results separated by general patterns of total fish abundance, relative abundance for subsets of key fish species, and demographics for these key fish species (Section 3.3)
- Associations between water properties and fish presence (Section 4.0)
- Patterns of fish habitat use in the survey region (Section 5.0)
- Review of the project objectives (Section 6.0)
- Survey schedule and effort (Appendix A)
- Data summaries (Appendix B)

Introduction
May 20, 2016

- Hydroacoustic analysis segments (Appendix C)
- Marine fish survey incidental sightings (Appendix D)
- Exploratory sample methods and results (Appendix E)
- Hydroacoustic transect echograms (Appendix F)

Key terms used throughout the report are listed in Table 1.

Table 1 Key Terms Used

Key Term	Definition
Commercial, recreational, or Aboriginal (CRA) fishery species[a]	"Fish that are part of commercial, recreational or Aboriginal fisheries are interpreted to be those fish that fall within the scope of applicable federal or provincial fisheries regulations as well as those that can be fished by Aboriginal organizations or their members for food, social or ceremonial purposes or for purposes set out in a land claims agreement. Fish that support these fisheries are those fish that contribute to the productivity of a fishery (often, but not exclusively, as prey species). The 'fish that support' may reside in water bodies that contain the commercial, recreational or Aboriginal fisheries or in water bodies that are connected by a watercourse to such water bodies." (*Fisheries Act*, Section 2(1))
Exploratory sample methods	Refers to fishing techniques used in the marine fisheries program outside beach seine and trawls as presented in Appendix E.
Exploratory sample sites	Refers to each of the sample sites where data were collected using exploratory sample methods.
Fish[a]	"Parts of fish, shellfish, crustaceans, marine animals and any parts of shellfish, crustaceans or marine animals, and the eggs, sperm, spawn, larvae, spat and juvenile stages of fish, shellfish, crustaceans, and marine animals" (*Fisheries Act*, Section 2(1))
Fish Habitat[a]	"Spawning grounds and any other areas, including nursery, rearing, food supply and migration areas, on which fish depend directly or indirectly in order to carry out their life processes." (*Fisheries Act*, Section 2(1))
Focal species	Five anadromous salmon (pink, chum, sockeye, coho, and Chinook), three pelagic marine fish species (surf smelt, Pacific herring, and larval fish [a grouping that could possibly include larval eulachon]), and three benthic marine fish species (starry flounder, English sole, and Dungeness crab) were identified as focal species based on known key CRA fishery species and species of fisheries management concern using the criteria detailed in Table 2.
Habitat use	The direct or indirect use of a habitat by a fish species to carry out their life processes. In this report, the term 'habitat use' is used to describe the presence of fish species and life stage (based on size) in a habitat.
Incidental sightings	Observations of marine flora and fauna outside specific sample collections as defined in Section 2.2 and Section 3.2 methods.
Sample site	Refers to the specific physical location where data were collected using a certain type of gear (e.g., one beach seine, one CTD site).
Spatial distribution	Refers to patterns observed among survey areas (as shown on Figure 2).
Survey	Refers to one continuous field expedition aimed to complete a full round of sampling at all sample sites in all applicable survey areas.

Table 1 Key Terms Used

Key Term	Definition
Survey area	Refers to each of the areas in Figure 2 labeled A through I.
Survey region	Refers to the greater regional context and includes the survey areas G, H, and I (which are outside of the vicinity of the marine Project components).
Temporal distribution	Refers to patterns observed across survey months.

NOTE:

- Text in quotations are taken directly from the *Fisheries Act*, Section 2(1)

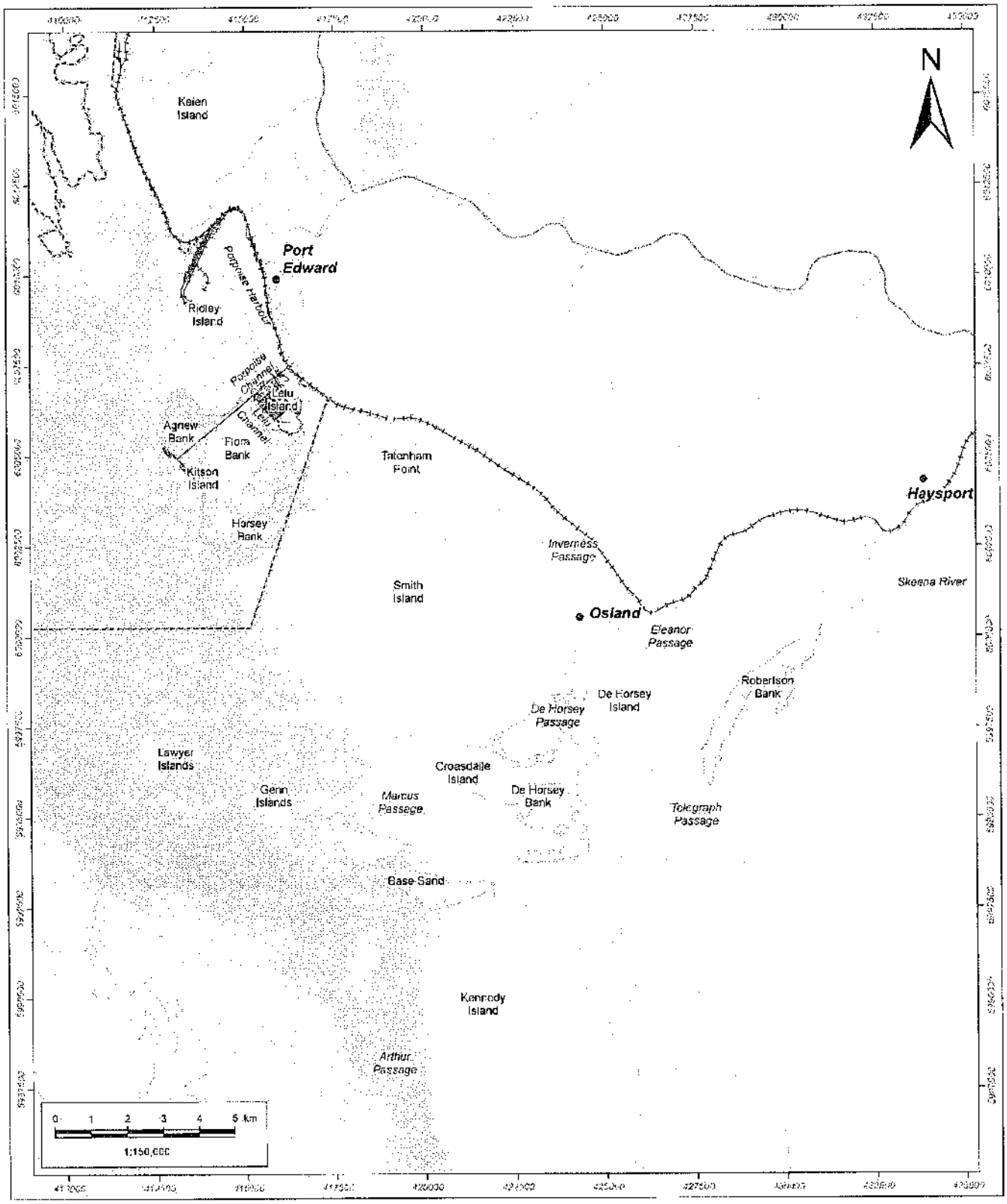
1.2 SURVEY APPROACH

The survey region included the waters of Porpoise and Lelu channels; Flora, Agnew, Horsey, and Robertson banks; and Inverness, Telegraph, and Marcus passages (Figure 1). The Program comprised multiple surveys to sample ocean water properties, zooplankton, crab, and fish species. It was initially designed as two surveys scheduled over two months (December 2014 and January 2015) with the understanding that lessons learned during these initial surveys would be used to refine and implement a longer term Program. The initial survey design and proposed methods were shared with the Canadian Environmental Assessment (CEA) Agency, Fisheries and Oceans Canada (DFO), the CEA Agency-PNW LNG Working Group, and the Tsimshian community in October of 2014. As a result of DFO and PNW LNG Working Group input and their feedback into the initial survey design, the surveys were extended to cover a period of 15 months, from December 2014 to February 2016.

The Program included daytime marine fish surveys, supplemented by nighttime surveys beginning in April 2015 to capture the April to July period of Skeena salmon smolt outmigration (Manzer 1956; Wood et al. 1998; Cox-Rogers and Spilsted 2012; Beacham et al. 2014).

Daytime Marine Fish Surveys—Daytime marine fish surveys were conducted once or twice per month (for four to eight days each survey) across the 15 months from December 2014 to February 2016 (see Appendix A for details) in the vicinity of the marine Project components (i.e., survey areas A through F, Figure 2). Starting in June 2015, daytime fish surveys were also conducted in three additional survey areas within Chatham Sound: Marcus Passage (survey area G); Inverness Passage (survey area H); and Telegraph Passage (survey area I) (Figure 2).

Initial surveys used a variety of fishing gear types (e.g., crab trap, trawl, beach seine, purse seine, fyke net) designed for different habitats and species to examine fish spatial distribution, species presence, abundance and biological characteristics (e.g., life cycle stages). A combined conductivity-temperature-depth (CTD), dissolved oxygen, turbidity and chl-a fluorometer sensor package was used to sample ocean water properties and a 0.5 m SCOR net was used to collect zooplankton. Methods and rationale of survey area selection are discussed in Section 2.2 and 2.3.



City or Town
Project Component
Railway
Highway
Secondary Road
Watercourse
Prince Rupert Port Authority Boundary
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal
Bathymetry (m)
0
-300

Pacific NorthWest LNG

Marine Fish Survey Region

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information, Progress Energy Canada Ltd

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DATUM: NAD 83
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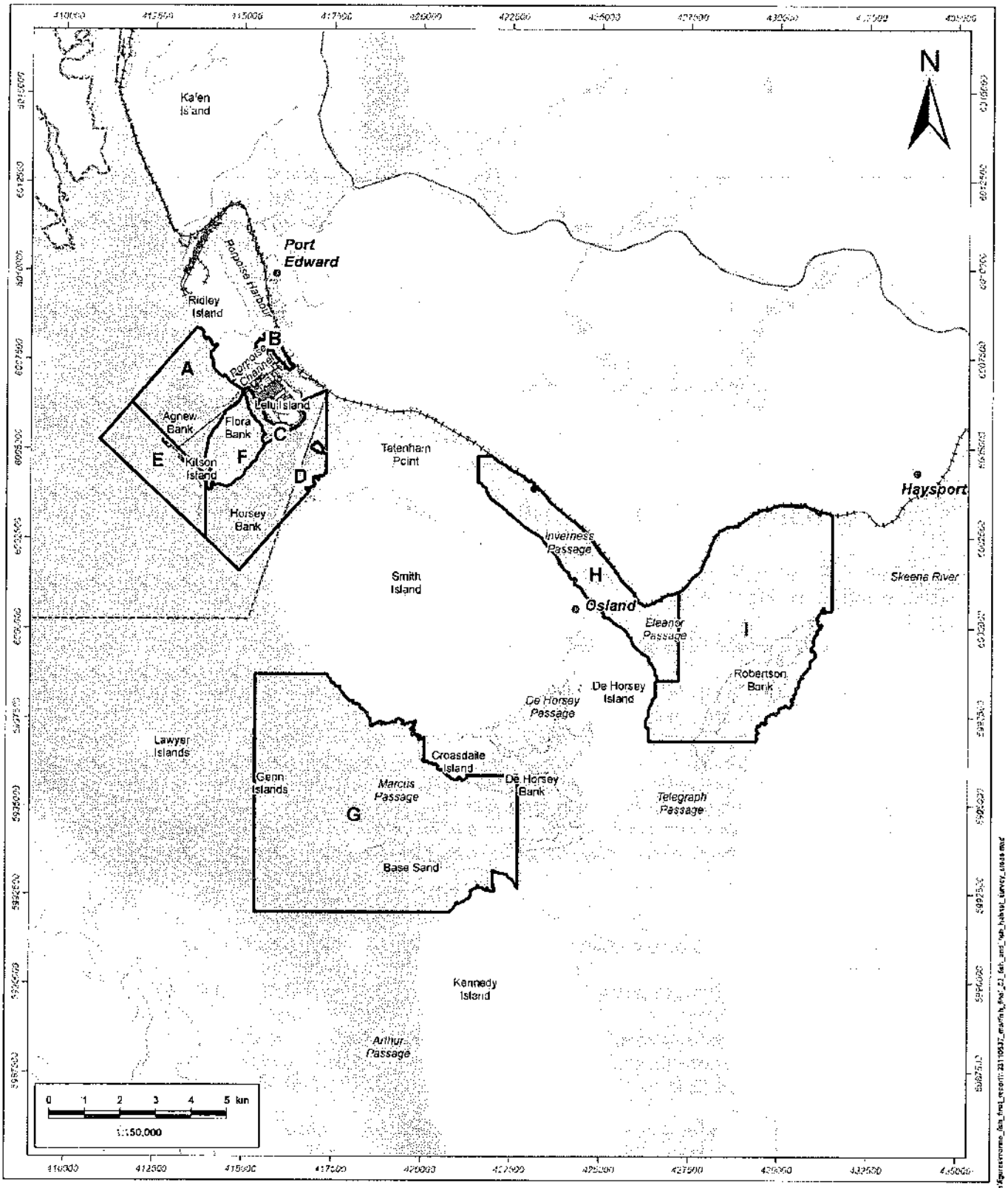
PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: 1



City or Town
Project Component
Railway
Highway
Secondary Road
Watercourse

Survey Area
Prince Rupert Port Authority Boundary
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Bathymetry (m)
0
-300

Pacific NorthWest LNG

Marine Fish Survey Areas

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FIGURE NO: **2**

Nighttime Marine Fish Surveys---Dusk/night surveys were conducted once, twice, or four times a month (for four to nine days each survey) between April and July 2015 (see Appendix A for details). Trawl and hydroacoustic gear, along with zooplankton vertical hauls, were used to examine fish spatial distribution and plankton forage supply in survey areas A through G. Survey areas H and I were not sampled at night due to navigational safety considerations (e.g., many shallow areas and rocks to navigate). Field work was scheduled during known periods of spring-summer salmon smolt outmigration from freshwater to marine environments. The intent was to capture fish during periods of potentially lower spatial heterogeneity (reduced schooling behaviour), potentially enhanced vulnerability to active fishing gear types (Hahn et al. 2007), and greater activity (increased nocturnal foraging behavior and migration is documented for some juvenile salmon populations) (Whitney 1969; Godin 1980; Soeda, et al. 1987).

1.3 QUALITY CONTROL/QUALITY ASSURANCE

A series of protocols were implemented to promote high-quality data collection, analysis and interpretation during the Program.

Routine Field Equipment Inspection and Calibration

- All fishing gear was inspected for tears and rips prior to field use. If wear or damage was identified, the net was mended by field crews (e.g., minor repairs such as small holes) and/or professionally repaired (large rips or tears requiring stitching) as required.
- Field calibration checks of hydroacoustic equipment were performed using a tungsten-carbide sphere to determine if calibration offsets were needed during data processing.
- CTD sensors used to sample marine water properties were rented from ASL Environmental Sciences. CTD equipment was maintained and calibrated by ASL prior each survey.
- All crab traps and lines were inspected and repaired prior to field use.

Data Checks

- Quality control checks of raw data were scheduled and performed during the field program.
- Field data accuracy and completeness was reviewed and confirmed by a second biologist during the field surveys.
- Field data forms were photographed for inventory and storage in the advent of data loss.
- Photographs were downloaded from cameras, sorted, and labelled at the end of each day.
- Data files were uploaded to a secure Stantec server during each field survey as soon as possible.
- Data review, confirmation, and approval was scheduled and performed by a Registered Professional Biologist following field data entry, to limit possible errors (e.g., identify species size or count values with misplaced decimal points, identified as those that differ by orders of magnitude).

Data Analysis

- All data analyses and report presentations were reviewed by Registered Professional Biologists, and reviewed through the Stantec Quality Management System (see below).

Report Preparation and Review

- All Stantec reports are subject to a quality control process that includes review by a Quality (Technical) Reviewer and an Independent Review by qualified senior staff, in accordance with the project requirements of Stantec's ISO 9001 Quality Management System.

2.0 HABITAT IN SURVEY AREAS

2.1 INTRODUCTION

Nine survey areas were selected and delineated within the larger survey region (Figure 2, described in Section 2.3.1), including three survey areas (Inverness, Marcus, and Telegraph passages) outside of the vicinity of the marine Project components. The nine survey areas were representative of habitats that were common across the survey region (i.e., nearshore intertidal, nearshore subtidal, offshore pelagic). Survey area boundaries were chosen in consideration of logistical constraints related to site access and transit times (i.e., to allow for replicate sampling within each survey area during each survey).

2.2 METHODS

Qualitative and quantitative observations were used to describe the marine biophysical environment in the survey region. Literature and local qualitative visual observations were used to describe the general habitat setting (Section 2.2.1). Two sets of quantitative measures were used to describe marine water properties, including: 1) turbidity, dissolved oxygen, temperature, conductivity, and chlorophyll (chl-a) concentrations (phytoplankton abundance) (Section 2.2.2), and 2) zooplankton abundance (Section 2.2.3).

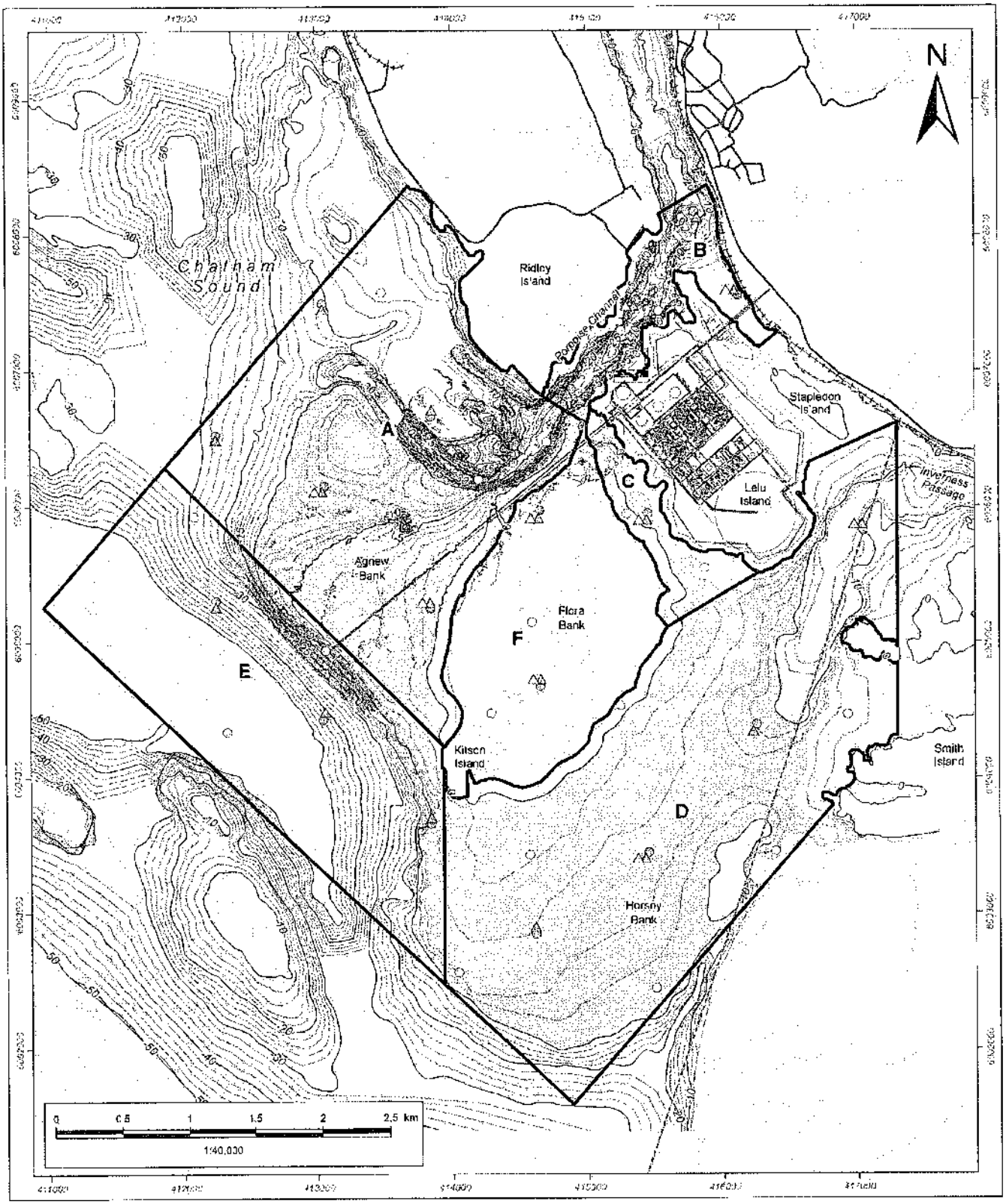
Daytime surveys used established sampling techniques to measure ocean water properties. Techniques were adjusted during the course of the Program based on site-specific field experience related to marine conditions, health and safety of field crew and gear, and effectiveness of the different survey methods and gear in catching targeted species.

The initial survey design, implemented in December 2014, included water column profiling with a CTD, coupled with additional sensors which, taken together, measured depth, conductivity, temperature, turbidity, dissolved oxygen, and chl-a. These measurements were used to characterize water properties within each survey area and over time. Temperature and salinity measurements were also used to calculate sound speed in the hydroacoustic data analysis (see Section 2.2.2).

Sample methods and sites (see Appendix A for a summary of methods by date) were refined to include:

- Expanded spatial and temporal coverage of oceanographic water property sites (starting June 2015)
- Nighttime CTD casts and zooplankton sampling (April to July 2015)
- Monthly daytime zooplankton sampling (August, September, and December 2015)

Sample sites for water properties within survey areas A through F are shown in Figure 3; survey area G is shown in Figure 4.



Project Component
Railway
Road
Secondary Road
Watercourse
Bathymetry (m)
Major Contour
Minor Contour

Survey Area
Prince Rupert Port Authority Boundary
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

CTD (Daytime) (21)
CTD (Nighttime) (19)
Zooplankton (Daytime) (9)
Zooplankton (Nighttime) (19)

Pacific NorthWest LNG

Water Properties Sample Sites: Survey Areas A, B, C, D, E, and F

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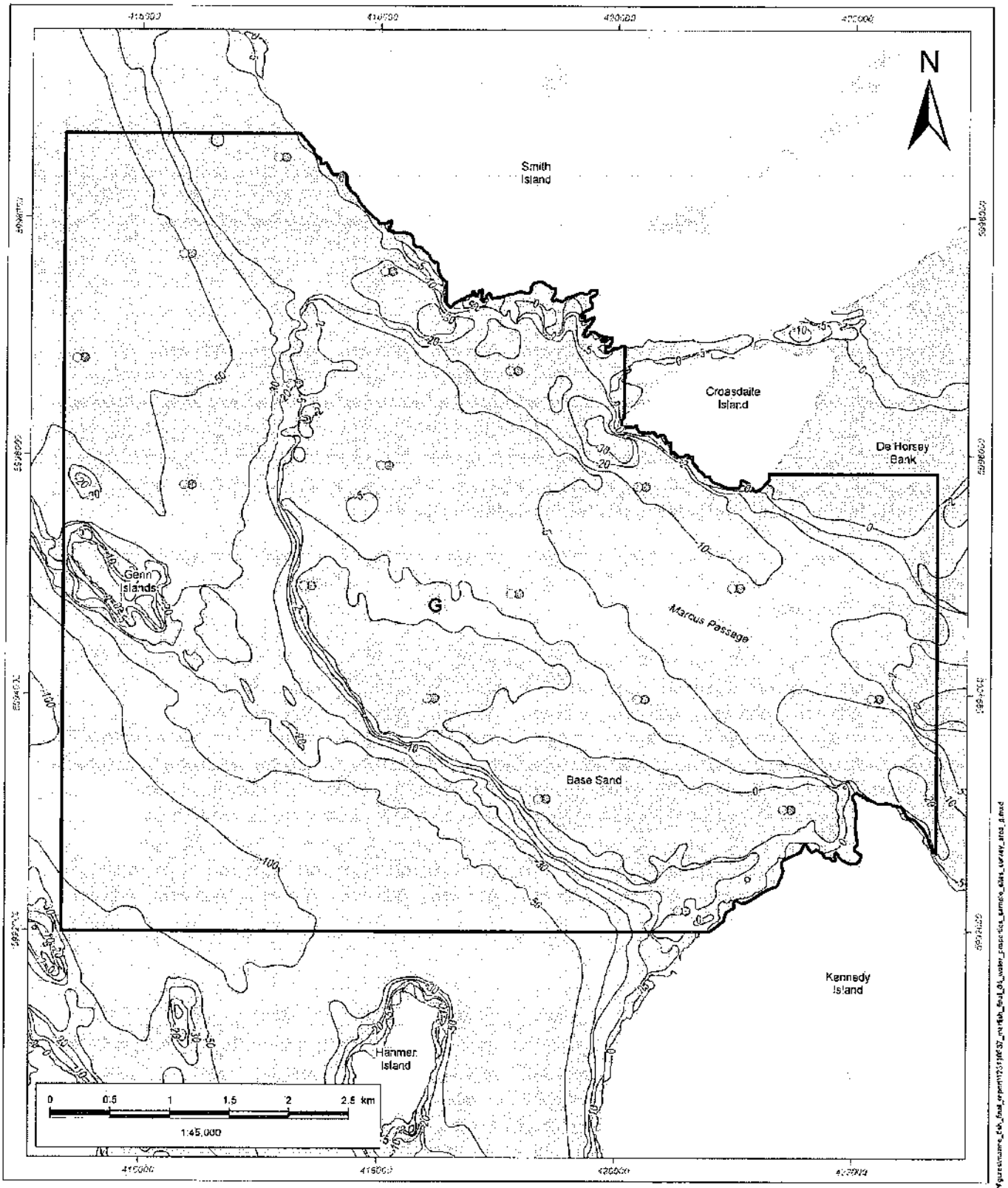
FIGURE NO: 3



Watercourse
Bathymetric Contour
Survey Area
Waterbody
Intertidal Bank
CTD (Daytime) (18)
CTD (Nighttime) (18)

Pacific NorthWest LNG

Water Properties Sample Sites: Survey Area G

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FIGURE NO: 4

The following sections provide a discussion of the purpose, survey design and methods used to describe habitats based on qualitative descriptions of habitat features and empirical measurements of marine water properties and zooplankton.

2.2.1 General Habitat Description

Field crews made visual observations of general habitat attributes at each survey area, including prominent shoreline features, visible substrate types, shoreline exposure to waves, ocean currents, and dominant and interesting species. These observations were integrated with information from existing literature to form qualitative descriptions of the nine survey areas (see Section 2.3.1). Literature included peer-reviewed journal articles, project-specific reports (e.g., Environmental Impact Statement [EIS] and technical data reports), government technical reports and management plans, and oceanographic charts.

2.2.2 Water Properties: CTD, Turbidity, Dissolved Oxygen and Chlorophyll a

2.2.2.1 Purpose

Water properties influence the production and distribution of biomass in aquatic (Falkowski et al. 1998) and marine ecosystems (Ware and Thompson 2005). For example, chl-a is a photosynthetic molecule produced by phytoplankton and acts as a surrogate for phytoplankton biomass in the water column. Higher chl-a concentrations during summer months are related to increased primary production driven by exposure to sunlight and reduced surface mixing (United States Global Change Research Program 2016). Concentrations are also influenced by other factors, including nutrient availability, freshwater inputs, grazing by zooplankton, advection, and export to the benthos. Sampling marine water properties concurrently with assessments of fish distribution and abundance can improve understanding of associations between habitat characteristics and marine fish in the survey region (discussed in Section 4.0).

2.2.2.2 Sample Design

Water properties in the survey region were sampled using a CTD with additional sensors to measure dissolved oxygen, turbidity and chl-a. These measurements were taken during daytime surveys at five sample sites in survey area A, three in survey area B, two in survey area C, six in survey area D, three in survey area E, and two in survey area F (Figure 3). Area G was surveyed from August through to December 2015 at 18 sample sites during daytime surveys. The water property sample sites were located along the hydroacoustic and trawl transects, with the exception of one sample site in survey area B and one sample site in survey area F placed near Kitson Island (Figure 3). Exploratory CTD measurements were taken in areas H and I, with results presented in Appendix E, Section E.2.1.

CTD sample sites were located along trawl and hydroacoustic transects to explore potential associations between biophysical properties of water and fish distributions (Section 4.0). During

daytime surveys in August, November, and December 2015, water property data were collected opportunistically and used to describe areas closer to the Skeena River and, therefore, more likely to be influenced by freshwater input (i.e., 14 sample sites in survey areas H and 17 in survey area I [Figure 5 and Figure 6, respectively; see Appendix E for results]).

Nighttime water property data were also collected in survey areas A through F (five sample sites in survey area A, four in survey area B, one in survey area C, four in survey area D, three in survey area E, and two in survey area F). Three nighttime sites were added within Porpoise Channel to examine water properties adjacent to the proposed MOF (materials offloading facility; Figure 3). During three nighttime surveys in June and July 2015, 18 sites were sampled in survey area G (Figure 4).

2.2.2.3 Methods

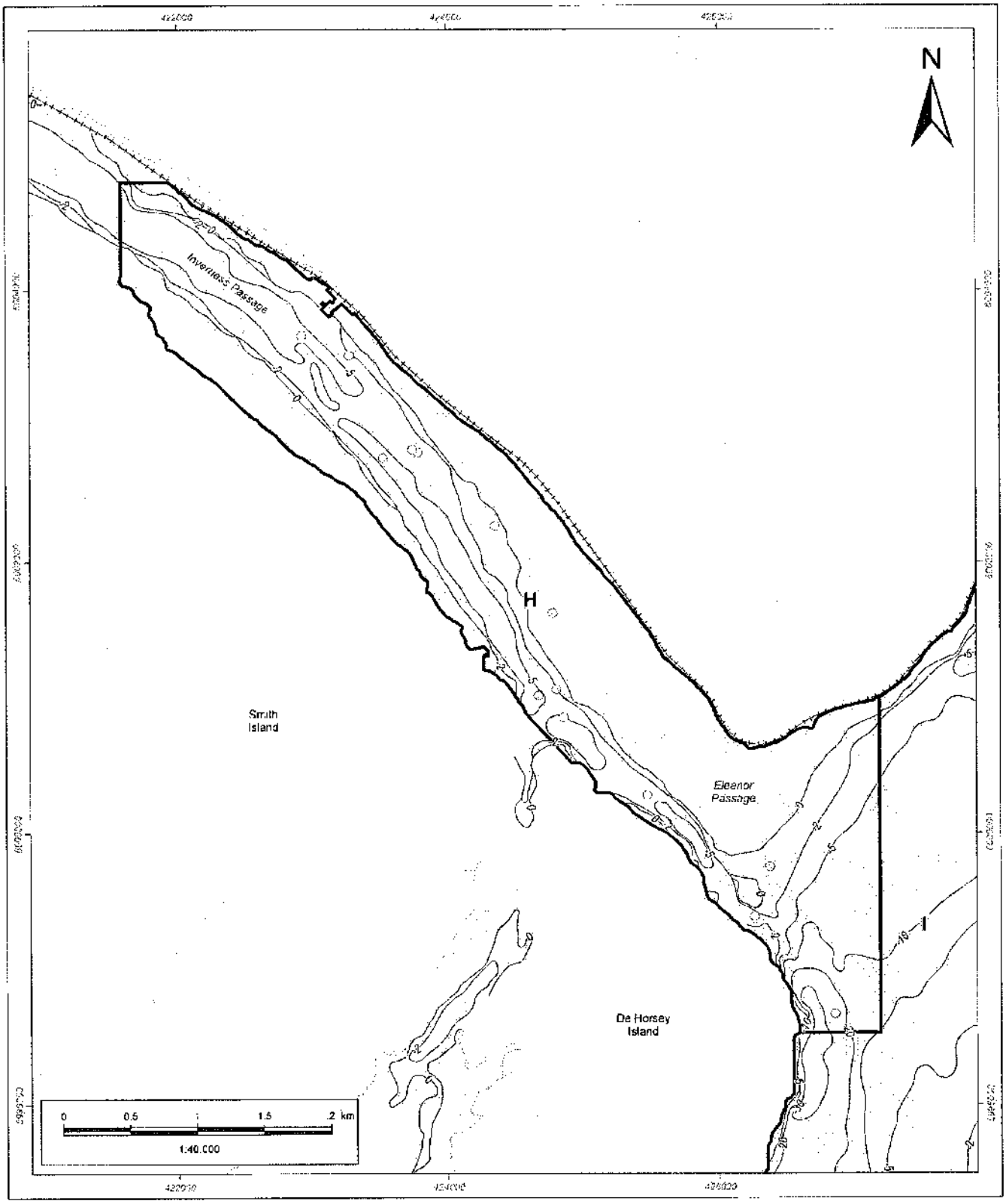
Water property data were collected by vertical water column profiling using a RBR XR 620 CTD (with dissolved oxygen, turbidity and chl-a sensors) or an ALEC CLW Infinity instrument (with chl-a, turbidity, and temperature sensors) combined with a RBR Concerto CTD (measuring depth, conductivity, temperature, and dissolved oxygen). Measurement units were recorded as follows:

- Turbidity (Nephelometric Turbidity Units [NTU])
- Temperature (degrees Celsius [°C])
- Conductivity (microsiemens per centimetre [µS/cm])
- Depth (m)
- Dissolved oxygen concentration (milligrams per litre [mg/L])
- Chl-a concentration (micrograms per litre [µg/L])

The CTD was lowered to the seabed at each sample site and retrieved vertically through the water column to the surface at a rate of approximately 1 m/s. The CTD recorded data six times every second (or approximately every 17 cm). Raw data were downloaded and analyzed using sensor-specific software and the OceanDataView program (Schlitzer 2002). Data analysis was completed by both Stantec and ASL staff.

Three seasonal sampling periods were used to summarize water property results across the survey period:

- Late Winter – early Spring: January, February, March and April
- Late Spring – Summer: May, June, July and August
- Fall – early Winter: September, October, November, and December.



Railway
Watercourse
Bathymetric Contour (m)
Survey Area
Waterbody
Intertidal Bank
CTD (Cast/me) (14)

Pacific NorthWest LNG

Water Properties Exploratory Sample Sites: Survey Area H

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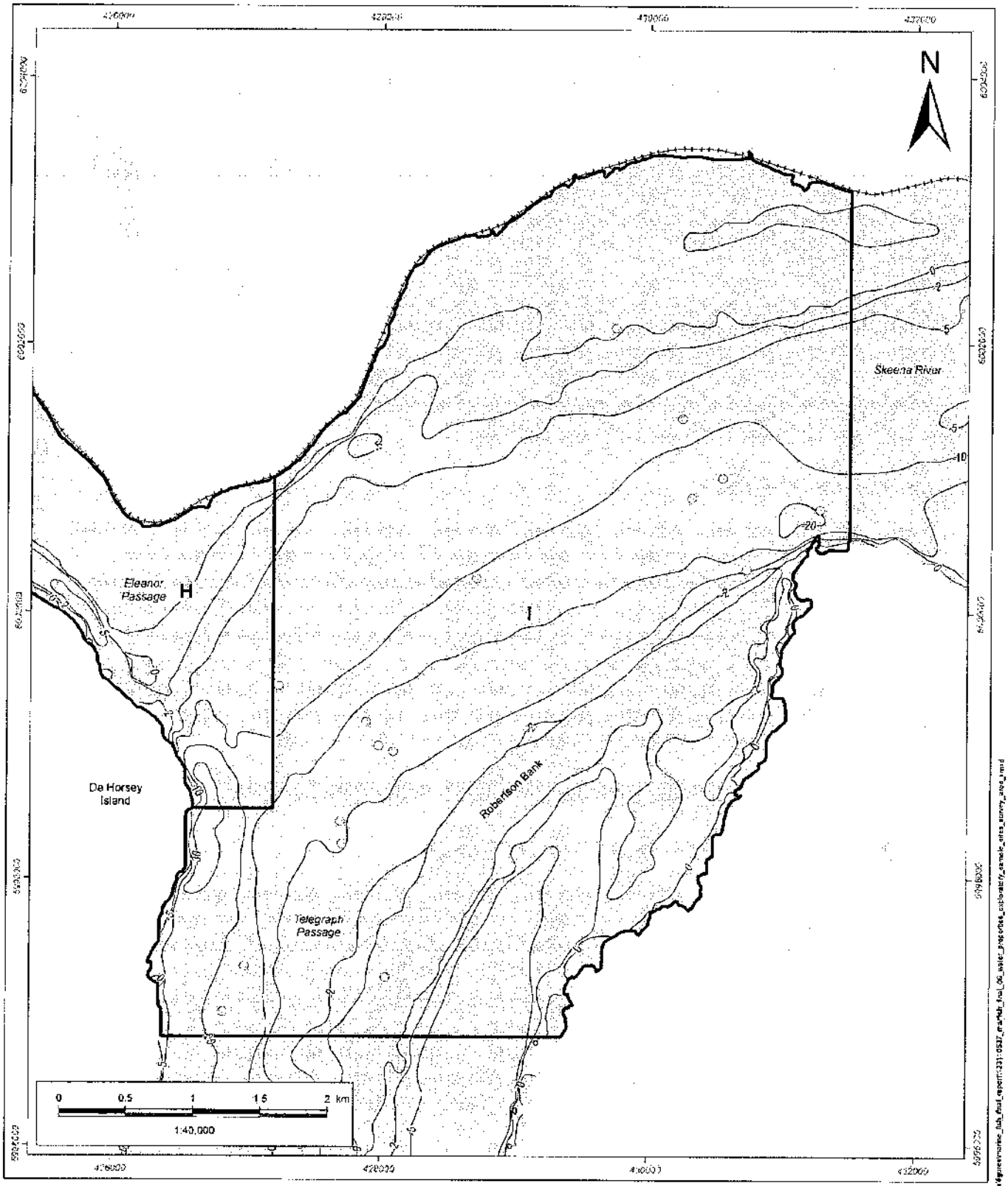
FIGURE NO: 5



→ Railway
Watercourse
Bathymetric Contour (m)
Survey Area
Waterbody
Intertidal Bank
CTD (Daytime) (17)

Pacific NorthWest LNG

Water Properties Exploratory Sample Sites: Survey Area I

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FIGURE NO: 6

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FIGURE ID: 123110537	DATUM: NAD 83
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2.2.3 Water Properties: Zooplankton

2.2.3.1 Purpose

Zooplankton samples were used to describe fish habitats in terms of presence, abundance, and distribution of potential planktivorous prey for fish in survey areas A through F. Zooplankton are often herbivores and consume phytoplankton, but are in turn prey to larger species including planktivorous fish (Schweigert et al. 2007). As such, zooplankton provide an energetic link between primary producers and higher trophic level fish (Pomeroy 1974; Sheldon et al. 1977; Pauly and Christensen 1995, Schweigert et al. 2007).

2.2.3.2 Sample Design

Zooplankton were collected during eight nighttime fish surveys from May to July 2015 and three daytime surveys in August, September, and December 2015. During the nighttime surveys, samples were collected concurrently with the CTD profiles from a total of 19 sample sites (five in survey area A, four in survey area B, one in survey area C, four in survey area D, three in survey area E, and two in survey area F; Figure 3). Daytime zooplankton samples were collected concurrently with the CTD profiles at nine sample sites (two in survey area A, two in survey area B [not sampled in December due to safety concerns and interactions in the field with non-project groups], one in survey area C, two in survey area D, and two in survey area F; Figure 3). A total of 176 zooplankton samples were processed and analyzed from 11 surveys.

2.3 SURVEY REGION HABITAT RESULTS AND DISCUSSION

2.3.1 Survey Region Literature Review Results

The survey region comprises the waters of Porpoise and Lelu channels; Flora, Agnew, Horsey, and Robertson banks; and, Inverness, Telegraph, and Marcus passages (Figure 1). Beaches of unconsolidated sands and gravels are limited along much of the mainland coast in the study region because of large areas of exposed bedrock, which have changed little since the retreat of glacial ice at the end of the Pleistocene (approximately 11,000 years ago) (Holland 1976). The geomorphology of the mainland coast and islands in the survey region is typical of the remnants of glacial scouring, which include troughs, banks, numerous rocky indented shorelines, inlets, passes, sounds, and narrows; as components of the larger Hecate Depression of the Coastal Trough physiographic region in British Columbia (Pickard and Giovando 1960; Holland 1976; Crawford et al. 2007).

The salinity, turbidity and non-tidal currents in the survey region are strongly influenced by freshwater input from the Skeena River (Holland 1976; Conway et al. 1996; Crawford et al. 2007). The Skeena River drains an area of approximately 52,000 km^2 and flows into Chatham Sound approximately 11 km southeast of Lelu Island. Discharge from the river primarily flows through three shallow passages. Approximately 25% of the discharge flows northwest through Inverness

Passage, to the east of Smith Island, towards Lelu Island; approximately 37.5% flows southward through Telegraph Passage, to the east of Kennedy Island; and approximately 37.5% flows northwest through Marcus Passage between Smith and Kennedy islands (Conway et al. 1996).

Large quantities of suspended sediment originate from the Skeena River during snowmelt-driven discharge in May and June (spring freshet) and, to a lesser extent, during higher fall rainfall from October to December (Birch et al. 1985; Stucchi and Orr 1993; Conway et al. 1996; DeGroot 2005; Stantec 2015). The transport of suspended sediment across the survey region follows the complex bathymetric contours extending from the Skeena River estuary (Conway et al. 1996).

The salinity profiles of many British Columbia inlets with large rivers commonly show a low salinity surface layer overlying higher salinity bottom waters (Pickard and Giovando 1960). The study region within the outer Skeena estuary experiences strong tidal mixing (Conway et al. 1996). As a result of local tide heights and tidal currents, and a limited salt water / freshwater interface (wedge), the Skeena River transports sediments to areas around Kennedy, Smith, and De Horsey islands, which help to maintain the Robertson and De Horsey banks and a sand bar in Marcus Passage known as Base Sand (Conway et al. 1996). Elsewhere in the survey region, soft-sediment deposits have formed pocket bays in sheltered sites with lower wind and wave exposure (e.g., around Lelu Island and neighbouring islands) and banks and shoals in shallower waters (Conway et al. 1996; McLaren 2016).

Currents along the north coast of British Columbia are comprised of both semi-diurnal tidal currents (two high and two low tides per day) and non-tidal currents (e.g., wind-driven and runoff/buoyancy driven currents) (Crawford et al. 2007). Coastal geomorphology and bathymetry strongly affect the movement of coastal currents throughout the survey region. Tidal currents in the survey region promote strong tidal mixing, but result in limited net movement due to ebb and flood tidal cycles within the region (Crawford et al. 2007). Tidal currents are stronger near the mouth of the Skeena River (up to 2 m/s [4 knots] in Telegraph and Marcus passages) than they are around Lelu Island due to weakening with increasing distance from the river mouth (Conway et al. 1996). Non-tidal currents flow northwest or south along central British Columbia's continental shelf associated with seasonal wind patterns and freshwater runoff. In the winter, currents extending from the Davidson Current flow northwest through Hecate Strait and the survey region. During the summer, the weakening of the Aleutian Low causes shelf currents to weaken and often reverse to a southerly flow (Crawford et al. 2007).

2.3.2 Survey Areas

Nine survey areas were used to characterize the habitats within the survey region. Seven biophysical attributes were observed across the survey region and used as a basis for qualitative descriptions of the nine survey areas (i.e., areas A to I), as follows:

- **Intertidal soft-sediment habitats with eelgrass:** Flora Bank (survey area F, Section 0 and survey area A, Section 2.3.2.1) and the channel between Lelu Island and Flora Bank (survey area C, Section 2.3.2.3)
- **Intertidal soft-sediment banks:** Flora Bank (survey area F, Section 2.3.2.6), De Horsey Bank and Base Sand (survey area G, Section 2.3.2.7)
- **Intertidal sand and gravel habitats:** Porpoise Channel (survey area B, Section 2.3.2.2) and Inverness and Eleanor passages (survey area H, Section 2.3.2.8)
- **Shallow subtidal soft-sediment banks:** Agnew Bank (survey area A, Section 2.3.2.1) and Horsey Bank (survey area D, Section 2.3.2.4)
- **Deeper subtidal soft-sediment habitats:** off of Agnew Bank (survey area A, Section 2.3.2.1 and survey area E, Section 0) and deeper waters of Marcus Passage (survey area G, Section 2.3.2.7)
- **Channels influenced by tidal currents and moderate freshwater outflow:** Porpoise Channel (survey area B, Section 2.3.2.2) and the channel between Lelu Island and Flora Bank (survey area C, Section 2.3.2.3)
- **Channels strongly influenced by freshwater outflow and tidal currents:** Inverness Passage (survey area H, Section 0) and Telegraph Passage (survey area I, Section 2.3.2.9)

2.3.2.1 Survey Area A

Survey area A comprises Agnew Bank, including the areas of the bank that interface with the intertidal edges of Flora Bank, the outflow of Porpoise Channel that is southwest of Ridley and Lelu islands, and the intertidal and subtidal areas southwest of Ridley Island (Figure 2). Agnew Bank is a gently-sloping soft-sediment shoal that tapers into the shallow subtidal (to about -10 m chart datum [CD]), in a westerly direction, from the western edge of Flora Bank. The centre of the bank is located approximately 1.7 km northwest of Kitson Island. Agnew Bank is adjacent to deeper waters in the northeast connected to Porpoise Channel (to about -30 m CD) beyond Ridley and Lelu islands. Agnew Bank is connected to a steep slope leading to a deeper subtidal plain (at about -50 m CD) in the southwest (Canadian Hydrographic Service [CHS] 2009, Chart 3947). Acoustic Doppler current profiler (ADCP) measurements over the bank in February 2015 show tidal current velocities were low (< 0.5 m/s) but increased to just over 0.5 m/s in the surface and mid layers of Porpoise Channel during the ebbing tide (Stantec 2015). Surface currents greater than 0.5 m/s, were also recorded during flooding tides at the edge of the subtidal slope to the southwest of Agnew Bank (Hatch 2015, Stantec 2015).

Agnew Bank is predominantly composed of fine sand substrate, with increased proportions of coarse and medium silts with increasing depth (Stantec 2014a; McLaren 2016). Subtidal remotely operated vehicle (ROV) surveys in 2013 showed sparse patches of eelgrass that were limited to the intertidal interface of Flora Bank and Agnew Bank and did not extend onto Agnew Bank (Stantec 2014a). Patches of brown algae (*Laminaria* spp. and *Alaria* spp.) were observed adjacent to rock reefs northwest of Flora Bank. Habitats adjacent to Agnew Bank, near Porpoise Channel, with hard substrates (bedrock, boulder and cobble) were found to support a higher diversity and density of algae than soft substrate areas (Stantec 2014a).

Depth integrated median monthly values of ocean temperature in survey area A, which were recorded from December 2014 to February 2016 (excluding October), showed a seasonal increase from approximately 8°C in fall/winter to 11.5°C in late-summer and fall (Figure 7).

Chl-a concentrations mirrored the seasonal trend of temperature, rising from median monthly values of ≤ 1.5 µg/l in December 2014 to 3.5 µg/l in June (Figure 7). Chl-a concentrations were higher during the July nighttime survey than during the daytime survey.

Turbidity in survey area A was ≤ 2.5 NTU from December to April. Turbidity peaked in the May daytime survey (approximately 6.0 NTU), likely as a result of spring freshet of the Skeena River. However, the turbidity recorded during the nighttime survey during the same month was lower. Following the peak in May, turbidity levels gradually decreased (i.e., between approximately 4 and 2 NTU) from mid-June into September and November through February (Figure 7).

Median monthly values of salinity in survey area A ranged between 26 and 30 Practical Salinity Units (PSU) year-round. As is typical in other marine and outer estuarine environments, salinity levels in survey area A were lowest in the spring (particularly May) when snowmelt and rain increase freshwater flow from the Skeena River (Figure 7).

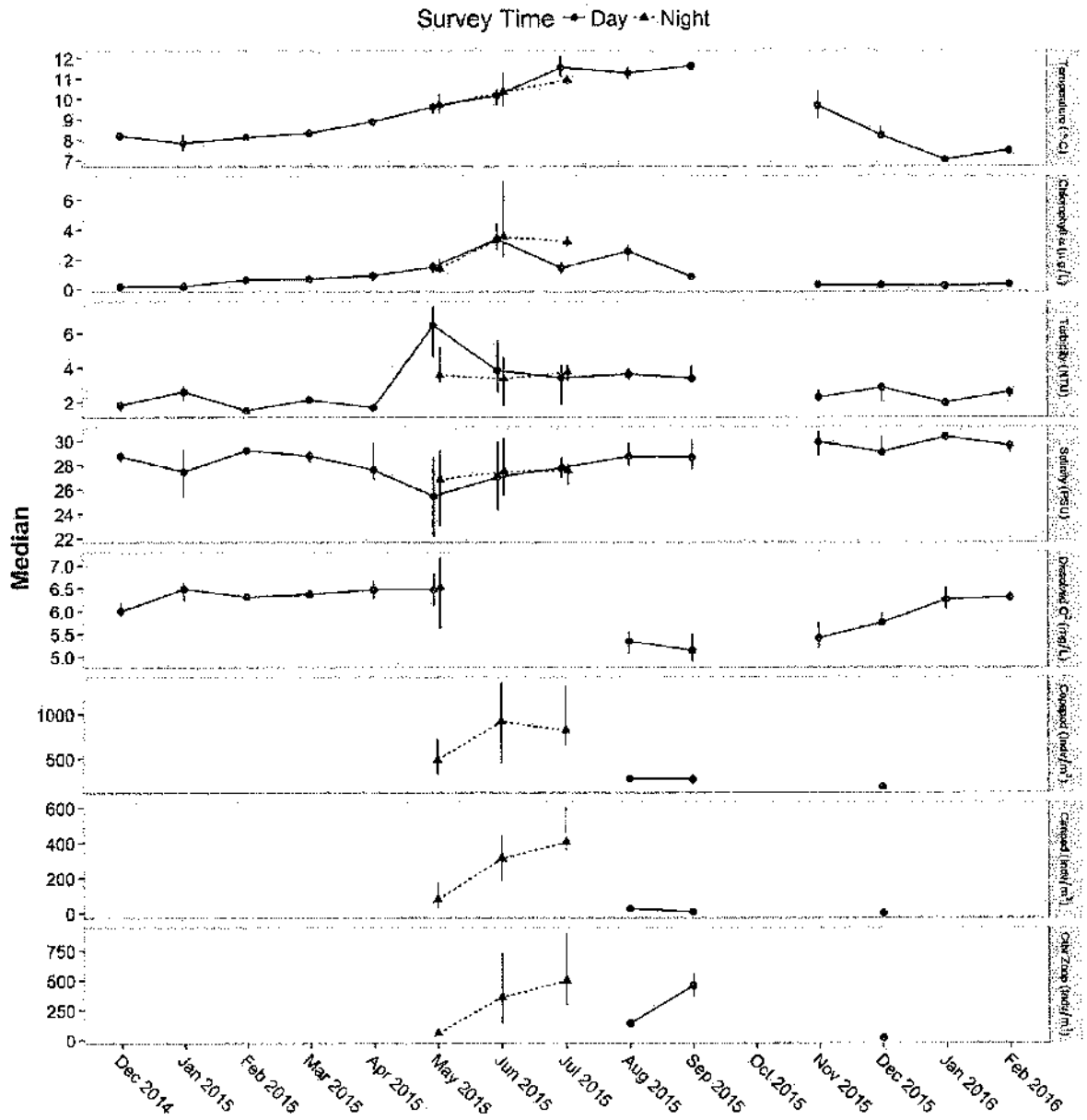
Dissolved oxygen concentrations in survey area A ranged from 6.0 to 6.5 mg/L during December 2014 to May 2015, were below 5.75 mg/L in August, September and November 2015, and then increased through to[1] February 2016, at which time levels were similar again to those in the same months in 2015.

Zooplankton samples combined across all areas were dominated by copepods and cirripeds. Overall, median copepod relative abundance was 56.2%, while median cirriped relative abundance was 15.9% (Appendix B, Table B.1). These two taxa were numerically dominant in each survey area, and as a result, we present more detailed information in all areas for these two taxa and show information of all other taxa combined (Table B.1).

In survey area A, copepod density ranged from 500 to 1,000 individuals/m^3 during nighttime surveys conducted May to July. Densities in August, September and December daytime surveys were notably lower that observed at night earlier in the summer (≤250 individuals/m^3). Cirriped abundance was lower than copepod abundance. Cirriped density was high in nighttime surveys during May, June, and July (approximately 100 to 400 individuals/m^3) relative to the densities found in daytime surveys in August, September and December (< 100 individuals/m^3). The

[1] The quality control analysis of the *in situ* field data for dissolved oxygen recorded in June and July suggests there was likely a calibration error. As such, the June and July dissolved oxygen measurements were omitted from the dataset.

density of all other zooplankton in survey area A (i.e., combined total minus copepods and cirripeds) appeared to increase from May to July during nighttime surveys; daytime surveys showed highest densities in September relative to lows in August and December (Figure 7).



NOTES: Dissolved oxygen sensor malfunctioned June and July 2015; values not displayed. Interquartile range shown as vertical bars.

Figure 7 Survey Area A: Water Property Characteristics

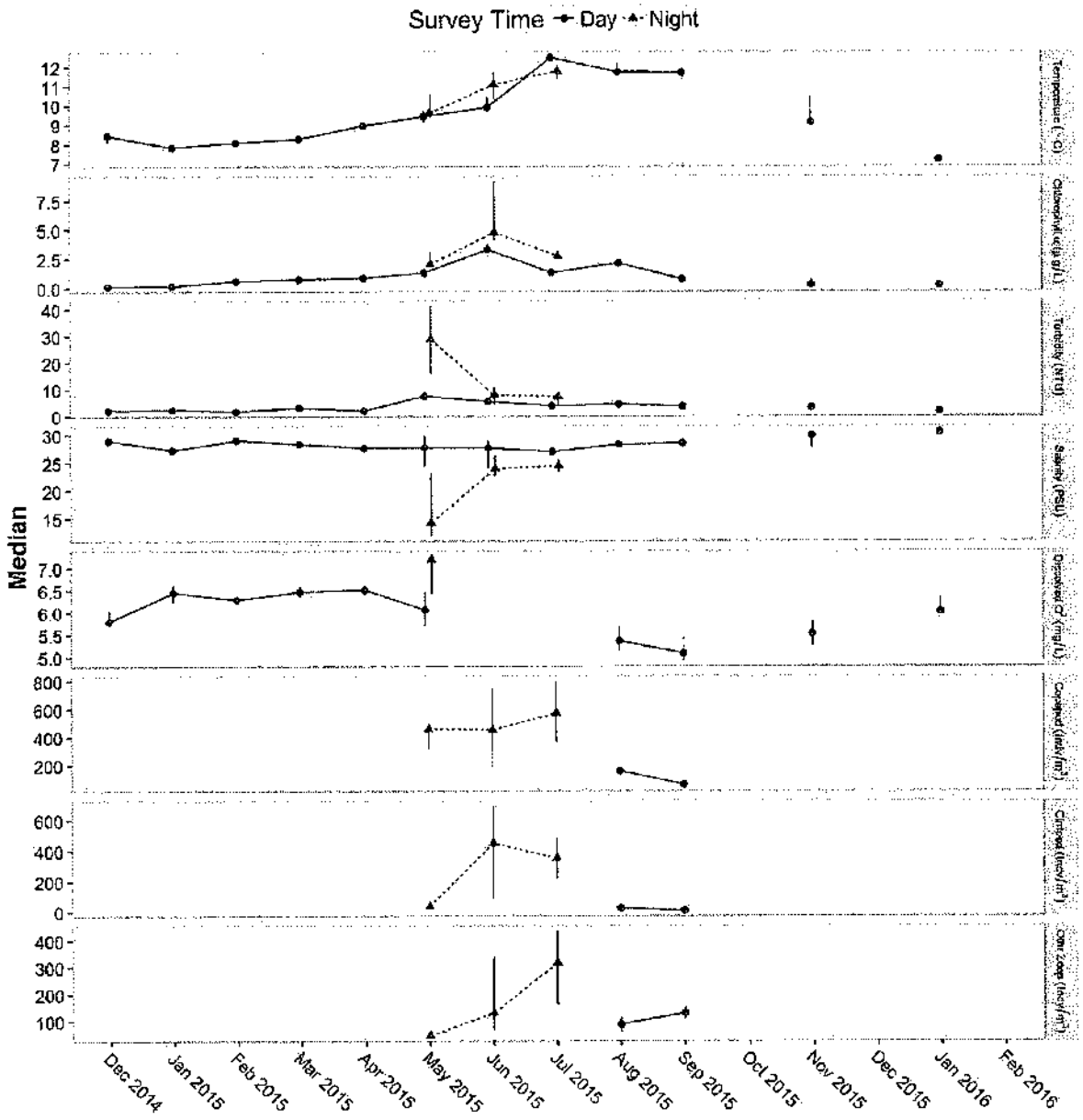
2.3.2.2 Survey Area B

Survey area B comprises Porpoise Channel (between Ridley and Lelu islands) and the northwestern portion of the Lelu Slough (between Lelu Island and the mainland) (Figure 2). Porpoise Channel reaches depths of between -20 and -25 m CD across the channel, whereas the slough is shallow and intertidal (CHS 2009, Chart 3947). Hydrodynamic model predictions suggest flood currents can reach a maximum depth-averaged current velocity of 0.8 m/s in Porpoise Channel (Hatch 2015).

The substrate of Porpoise Channel comprises a mix of cobble and soft sediments in the center of the channel and bedrock, boulders, and cobble along the shallow subtidal and intertidal channel margins (Stantec 2014a). Subtidal and intertidal hard substrates in Porpoise Channel support a greater diversity and density of algae, compared with that recorded in local soft-sediment habitats (Stantec 2014a). Algae attached to hard substrate included kelp (predominantly *Laminaria spp.* and *Alaria* spp.), rockweed (*Fucus* spp.), green algae (*Ulva* spp.) and various species of red algae (predominantly *Mazzaella* and *Odenthalia* spp.) (Stantec 2016a). The intertidal substrate of Lelu Slough is predominately fine mud, with a sparse distribution of cobbles and gravel in the upper to mid intertidal. Field crews identified rockweed attached to cobbles in the upper intertidal and a band of *Ulva* spp. along the mid intertidal (Stantec 2014a, Stantec 2016a). Salt marsh species (predominantly sedge, i.e., *Carex* spp.) were found along the eastern intertidal areas). Subtidal and intertidal hard substrates in Porpoise Channel support a greater diversity and density of algae, compared with that recorded in local soft-sediment habitats (Stantec 2014a). Algae attached to hard substrate included kelp (predominantly *Laminaria spp.* and *Alaria* spp.), rockweed (*Fucus* spp.), green algae (*Ulva* spp.) and various species of red algae (predominantly *Mazzaella* and *Odenthalia* spp.) (Stantec 2016a). The intertidal substrate of Lelu Slough is predominately fine mud, with a sparse distribution of cobbles and gravel in the upper to mid intertidal. Field crews identified rockweed attached to cobbles in the upper intertidal and a band of *Ulva* spp. along the mid intertidal (Stantec 2014a, Stantec 2016a). Salt marsh species (predominantly sedge, i.e., *Carex* spp.) were found along the eastern shore of Lelu Island.

Ocean temperature in survey area B increased gradually from about 7.5°C to 10°C in winter to about 11.5°C and 12°C in late summer and fall (i.e., July, August and September). Temperature was lower in November and declined through January 2016 to about 7°C.

Concentrations of chl-*a* were ≤ 1.5 µg/l in winter and increased to 3.5 µg/L in June (Figure 8). After the peak in June, concentrations declined until September and remained low in November through January.



NOTES: Dissolved oxygen sensor malfunctioned June and July 2015; values not displayed. Interquartile range shown as vertical bars.

Figure 8 Survey Area B: Water Property Characteristics

Turbidity in survey area B was ≤ 3 NTU throughout the winter and early spring (from December to April). Peak observed turbidity measurements occurred during the nighttime survey in May (approximately 25 NTU), coinciding with the start of the Skeena River freshet; however, level during the daytime survey in May was lower (less than 10 NTU). Turbidity measured during daytime gradually decreased from mid-June into September and remained low from November through January (between 2 and 4 NTU; Figure 8).

Salinity in survey area B varied between 27 and 30 PSU, with the observed peak occurring in mid-November (about 30 PSU) during the daytime survey. The lowest salinity levels recorded were observed at night in May (about 27 PSU; Figure 8); however, levels measured during the day during the other months were consistent with the daytime trend (i.e., just below 30 PSU).

Dissolved oxygen concentrations in survey area B were between 5.75 and 6.5 mg/L from December to May 2015, and lower in August, September and December 2015 (≤ 5.5 mg/L) (Figure 8). DO recorded during the nighttime survey in May was higher than that recorded during the day (approximately 7 versus 6 mg/L).

Copepods densities were between 400 and 600 individuals/m^3 in May, June, and July nighttime surveys. Densities were lower (<200 individuals/m^3) for daytime surveys in August and September, which may have indicated a seasonal trend (high densities in early summer and lower densities in late summer), although any seasonal trends were confounded by timing of sampling and require further investigation. During nighttime surveys, cirriped density was higher in June and July (>400 individuals/m^3) than May (<50 individuals/m^3) and during daytime surveys in August and September numbers were low. Other zooplankton species appeared to increase in abundance from May to July during nighttime surveys, and to be lower during daytime surveys in August and September (Figure 8).

2.3.2.3 Survey Area C

Survey area C encompasses the narrow north-south oriented subtidal channel and intertidal margins between Lelu Island and Flora Bank (CHS 2009, Chart 3947; Figure 2). When exposed, a small intertidal portion of Flora Bank periodically closes this channel at its westernmost edge, joining the bank with rocky outcrops off the westernmost tip of Lelu Island. Tidal currents in the channel are typically weak (<0.5 m/s); however, stronger tidal currents occur in Porpoise Channel to the northwest of the channel and out of Inverness Passage to the southeast (Hatch 2015; Stantec 2015).

Fine and medium sands support beds of eelgrass of varying density on both sides of the channel (McLaren 2016; Stantec 2014a, Stantec 2016a). Along the south and southwest shoreline of Lelu Island, intertidal and shallow subtidal rock reefs provide substrate for rockweed mats, red algae communities, and limited areas of kelp (*Laminaria* and *Alaria* spp.) at the northern end of the channel and its connection to Porpoise Channel (Stantec 2014a). Two pocket bays, along the southwest shoreline of Lelu Island, grade from cobbles and gravel inshore to silty sand in the

lower intertidal. Sparsely distributed low density areas of salt marsh were recorded along the upper intertidal at several locations along the southwest shoreline of Lelu Island (Stantec 2014a).

Ocean temperature observed in survey area C rose steadily from about 7.1°C in winter to an observed peak of 12.2 °C in summer (July), then declined through January.

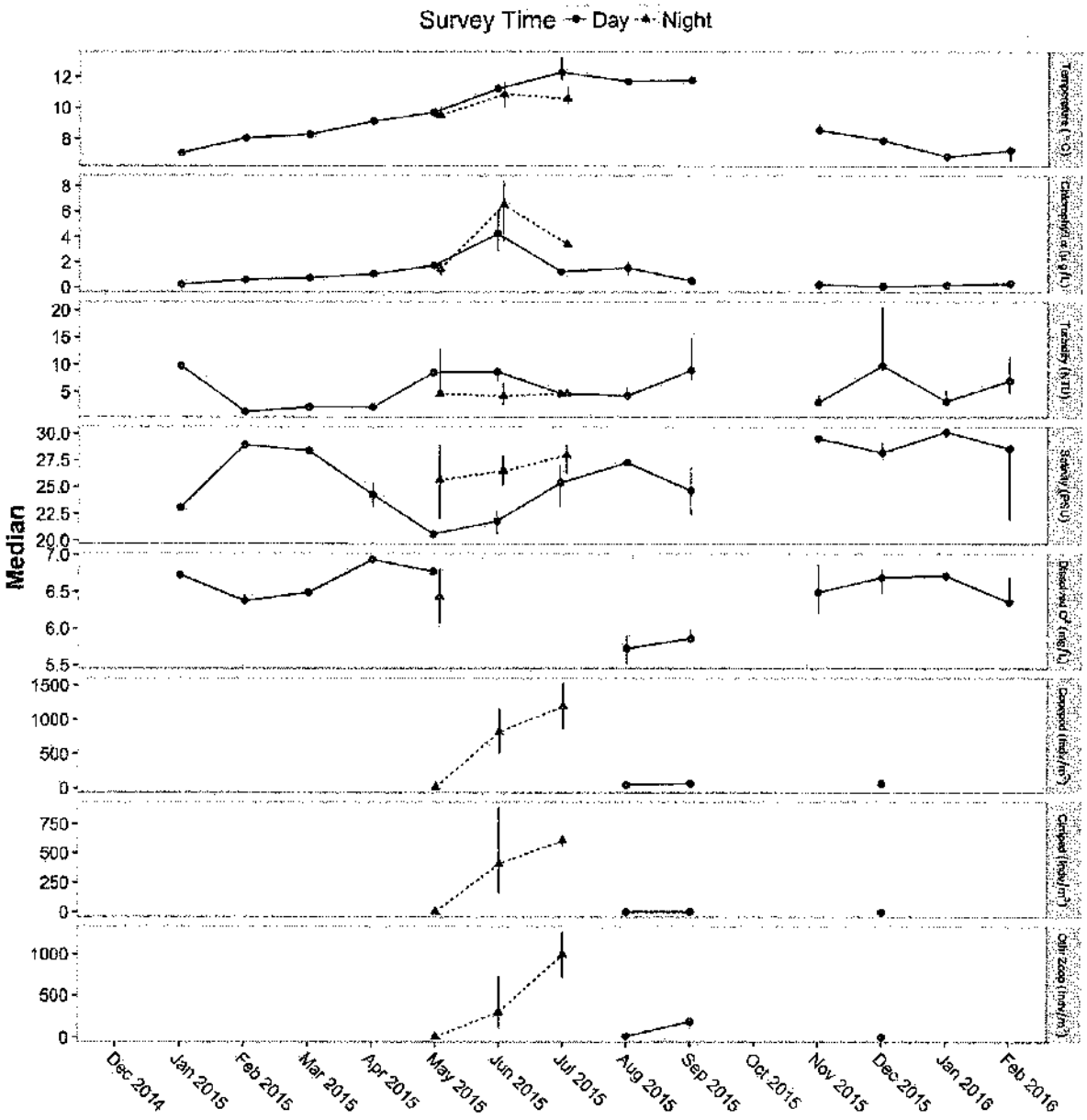
Chl-a concentrations were ≤ 1.0 µg/L in winter and increased gradually throughout the spring, peaking in mid-June (> 4.0 µg/L) during a nighttime survey (Figure 9). Data collected during daytime surveys also peaked in June, but at a lower median concentration. Chl-a concentrations were also higher from the nighttime sample than the daytime sample in July.

Turbidity in survey area C showed considerable month-to-month variation during the January 2014 to February 2016 surveys (approximate range of 1 to 10 NTU), with no clear seasonal pattern. The highest median turbidity value occurred in January and December 2015 (about 10.0 NTU) and the lowest median values were observed between February and April 2015 (Figure 9). Turbidity measured during the May and June nighttime surveys was slightly lower than that measured during the May and June daytime surveys but were similar in July.

Salinity observed in survey area C varied between about 20 and 30 PSU from December 2014 through February 2016. Median values were highest during most of the winter months (February and March 21015 and November 2015 to February 2016), but were relatively low in January 2015. Another seasonal high in median salinity appeared to occur in late summer. The lowest median values were observed in May (about 20 PSU) (Figure 9). The salinity data from nighttime surveys were consistently higher than during the daytime surveys during May, June, and July, but corroborated the pattern of relatively high salinity in late summer observed in the daytime data.

Dissolved oxygen concentrations in survey area C ranged between approximately 5.75 to 7.0 mg/L from January to May, with slightly lower values recorded in August and September (<6.0 mg/L) (Figure 9). Dissolved oxygen values reported from November through February were similar to the previous winter/early spring values (i.e., January through May 2015).

Copepod, cirriped, and other zooplankton densities showed similar abundance trends to other survey areas, with increasing numbers throughout the summer and a peak in July (up to approximately 1,500 individuals/m^3 for copepods; Figure 9). Zooplankton densities from daytime sampling in August, September, and December were relatively low in this survey area.



NOTES: Dissolved oxygen sensor malfunctioned June and July 2015; values not displayed. Interquartile range shown as vertical bars.

Figure 9 Survey Area C: Water Property Characteristics

2.3.2.4 Survey Area D

Survey area D includes Horsey Bank, the entrance to Inverness Passage near Stapledon Island, and part of the intertidal soft-sediment bay on the northwestern end of Smith Island (Figure 2). Horsey Bank is a shallow subtidal bank that extends from the southern tip of Lelu Island and the eastern edge of Flora Bank to depths of between -11 m and -21.9 m CD west of Smith Island (CHS 2009, Chart 3947). A channel to the east of Horsey Bank carries the outflow from Inverness Passage and reaches a maximum depth of -26.5 m CD. Currents in survey area D are primarily tidal but are also influenced by discharge from the Skeena River. At the outflow of Inverness Passage, current speeds of 1.5 to 2 m/s (3 to 4 knots[2]) reach Horsey Bank (CHS 2009, Chart 3947; Hatch 2015).

The predominant substrate of Horsey Bank and the area immediately southwest of the entrance to Inverness Passage is medium sand; however, patches of medium sand with shell and medium sand with boulders are also present (McLaren 2016; Stantec 2014b). In the channel between Horsey Bank and Smith Island, the substrate was found to grade from fine sand in the west to coarse silt in the intertidal at the northwest of Smith Island. Substrates near the outflow of Inverness Passage and intertidal areas around the southeast tip of Lelu Island were rocky with areas of medium sand, whereas fine sands and coarse silt were present around the southeast tip of Stapledon Island (McLaren 2016; Stantec 2014a, 2014b). Spaghetti kelp (*Chorda filum*) and unattached (drifting) green algae (*Ulva* spp.) were recorded in shallow subtidal areas of medium to fine sand and shell at Horsey Bank (Stantec 2014b).

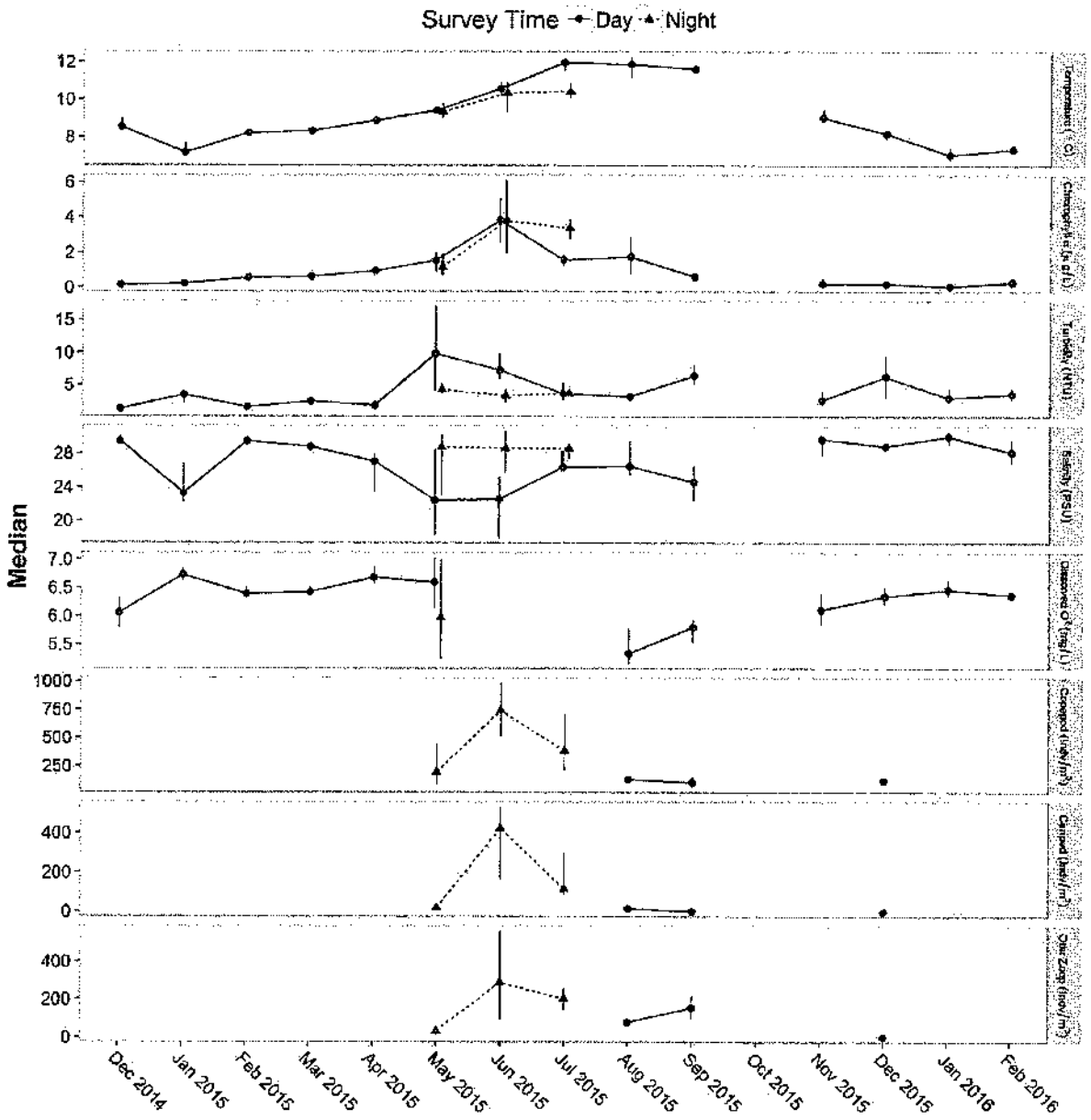
Median ocean temperatures in survey area D increased steadily from January (about 7.2 °C) to mid-July (12 °C), then declined slightly until September and declined further from November through January.

Similarly, median concentrations of chl-a increased gradually from December to May, with the observed peak in mid-June (approximately 3.8 µg/L), followed by a decline in late summer and fall to a minimum level in winter (Figure 10).

Median turbidity in survey area D ranged from about 1 to 10 NTU from December 2014 through February 2016. Median levels were observed to peak in May during the daytime survey (about 10 NTU), with lesser peaks noted in September and December during the daytime surveys. Observed turbidity was lowest between December and April. Turbidity data from nighttime surveys was lower than from daytime surveys in May and June.

[2] Knot is a rate of speed equal to one nautical mile per hour and is equivalent to 1.852 km per hour.

Habitat in Survey Areas
May 20, 2016



NOTES: Dissolved oxygen sensor malfunctioned June and July 2015; values not displayed. Interquartile range shown as vertical bars.

Figure 10 Survey Area D: Water Property Characteristics

Median values of salinity in survey area D varied considerably from month to month, and was highest during the winter months (except January 2015, 23 PSU). Salinity recorded during the nighttime surveys in May, June, and July was relatively high compared with the data recorded during the daytime surveys. The lowest salinity levels were recorded during the daytime surveys in May and June (< 23 PSU) (Figure 10).

Dissolved oxygen concentrations in survey area D ranged from about 6.0 to 6.75 mg/L from December to May and November through February, with the lowest levels recorded in August and September (< 6.0 mg/L) (Figure 10).

Median densities of copepod, cirriped, and other zooplankton were highest during nighttime sampling in June (about 750, 400, and 300 individuals/m^3, respectively). Numbers were lower in August, September, and December during daytime sampling (Figure 10). Copepod density was higher than cirriped density (approximately 750 versus 400 individuals in June), but both followed a similar monthly trend.

2.3.2.5 Survey Area E

Survey area E includes the proposed deep berthing/terminal area southwest of Agnew Bank to the west of Kitson Island and Horsey Bank (Figure 2). Here, the sea bed features a steep slope, from the shallow subtidal edges of Agnew and Horsey banks (at about -5 m CD) to a deeper plain (at about -50 m CD) southwest and west of the banks (CHS 2009, Chart 3947). Currents in survey area E are influenced by tidal forcing out of Porpoise Channel (Hatch 2015). Surface currents at the site of the proposed terminal berth were approximately 0.5 m/s during flooding tide in February 2015, but decreased to approximately 0.25 m/s at 2 m below the water surface (Stantec 2015).

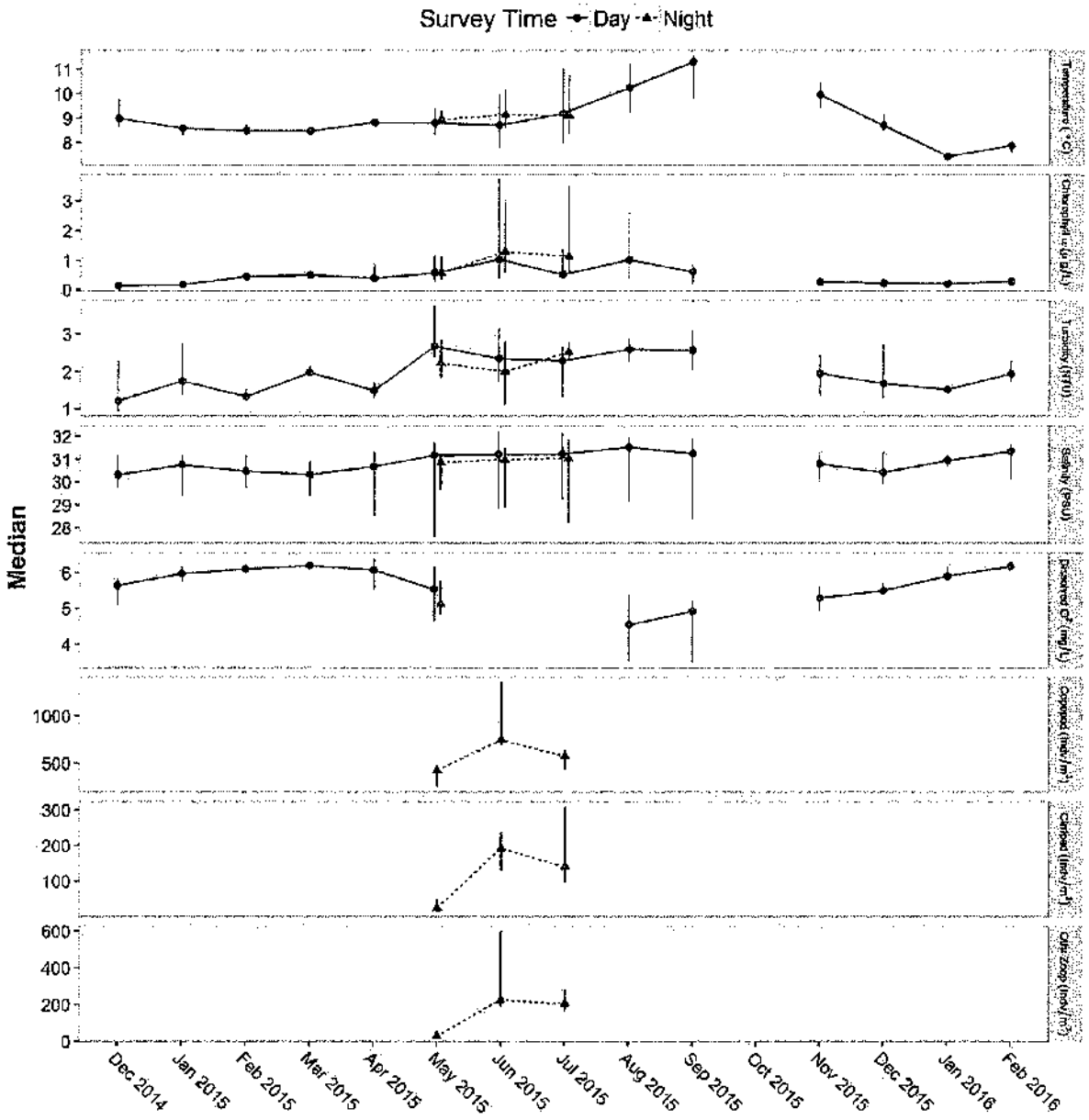
The predominant substrate along the slope and plain to the west of Agnew and Horsey banks is coarse to medium silt (Stantec 2014b; McLaren 2016). Sediments in this area became increasingly fine with depth beyond the edges of Agnew Bank to the east and Horsey Bank to the southeast (McLaren 2016). Most algae encountered during a shallow subtidal ROV survey conducted west of Agnew Bank, were drifting and not attached to substrate (Stantec 2014b).

Median temperatures showed typical seasonal variation, with lower temperatures during winter months and higher temperatures in the summer and fall. Median temperature was observed to peak in mid-September at about 11.0°C (Figure 11).

Median monthly values of chl-a remained at or below 1 µg/L from December 2014 through February 2016, with a modest increase in median concentrations in June and August (Figure 11).

Median turbidity appeared to be relatively low in winter (i.e., December to April and October to February), and higher in summer (i.e., May to September) (Figure 11). However, median turbidity showed relatively small changes from month-to month within both seasonal time periods.

Habitat in Survey Areas
May 20, 2016



NOTES: Dissolved oxygen sensor malfunctioned June and July 2015; values not displayed. Interquartile range shown as vertical bars.

Figure 11 Survey Area E: Water Property Characteristics

Median salinity in survey area E was relatively consistent and salty throughout the year in comparison to other survey areas that showed larger month-to-month changes; median values in survey area E ranged from about 30 to 31 PSU from December 2014 through February 2016.

Dissolved oxygen appeared to remain relatively high and steady from December to April (at about 6 mg/L) but declined to < 5.0 mg/L in August to September, before returning to an apparent high winter norm from November through February (Figure 11).

Median densities of copepod, cirriped, and other zooplankton were highest in the nighttime June survey, reaching about 750, 200, and 250 individuals/m^3, respectively (Figure 11). Copepod abundance was higher than cirriped abundance in survey area E across all three surveys completed, although both species followed the same overall month to month pattern. No daytime zooplankton sampling was conducted in survey area E.

2.3.2.6 Survey Area F

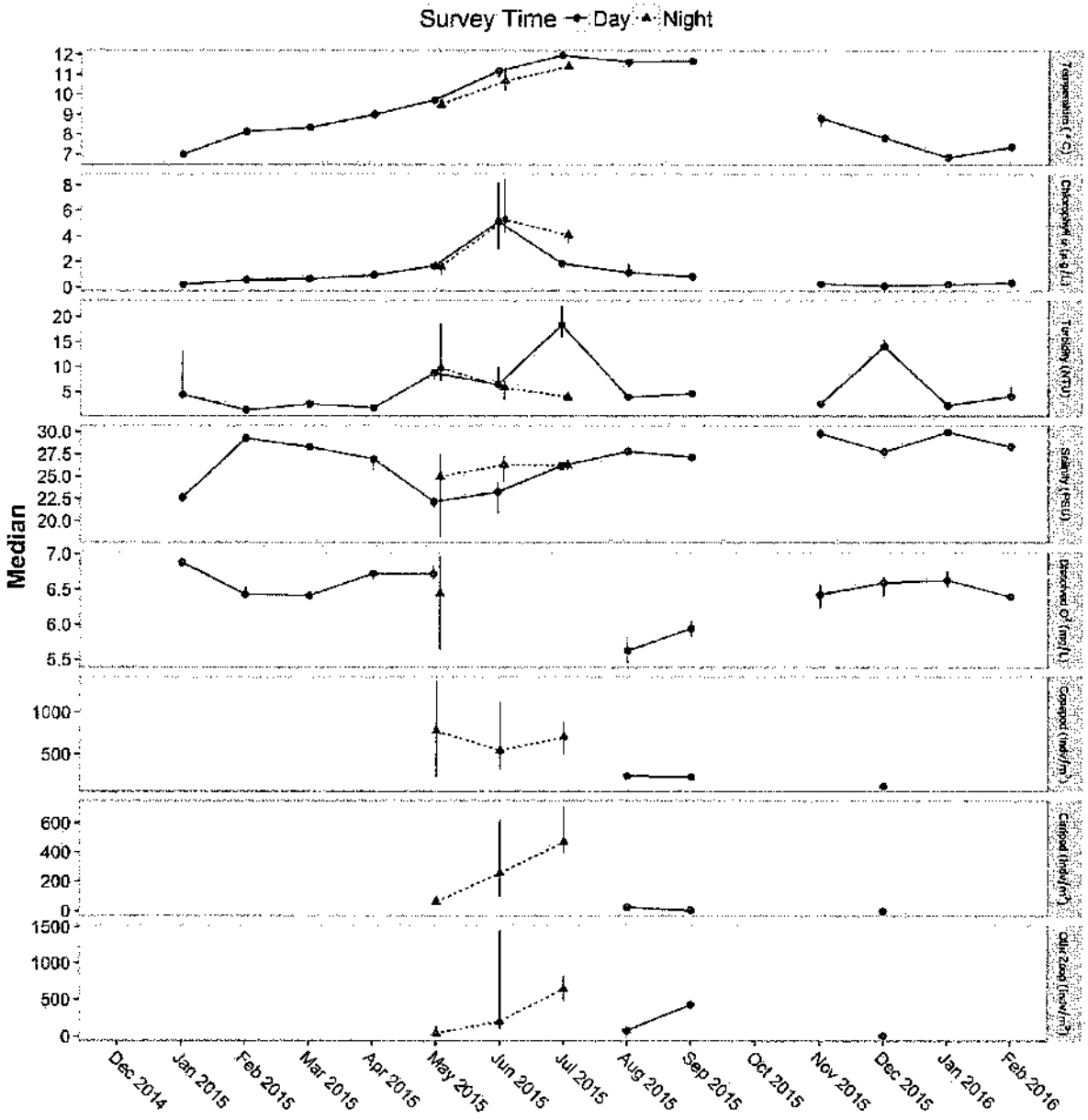
Survey area F encompasses Flora Bank, which is an intertidal sand bar extending from the western tip of Lelu Island, approximately 2.75 km southwest, to Kitson Island (Figure 2). Water depths across the soft-sediment areas of the bank extend to approximately -3.8 m CD (CHS 2009, Chart 3947, Hatch 2015). Several rocky reefs are present north of Kitson Island and near Lelu Island, the largest being Kitson Islet. An ADCP survey in February 2015 recorded maximum current speeds over much of Flora Bank (0.25 to 0.5 m/s during a flooding tide) (Stantec 2015). Tidal currents were found to concentrate in dendritic channels that occur across the surface of Flora Bank (Stantec 2016b).

The predominant substrate of Flora Bank is medium sand with smaller areas of fine sand (McLaren 2016; Stantec 2014a, Stantec 2016b). Extensive discontinuous patches of eelgrass (*Zostera marina*) cover the central area of Flora Bank, and there is evidence of inter-annual variability in eelgrass distribution and extent linked to sedimentary processes (Faggetter 2009; Higgins and Schouwenburg 1973; Stantec 2014a, Stantec 2016b). The extent of eelgrass on Flora Bank is limited to shallower intertidal depths that allow sufficient light penetration for growth; high turbidity experienced in the area is assumed to exacerbate this depth limitation (Faggetter 2009, Stantec 2014a, Stantec 2015, Stantec 2016b).

Median ocean temperatures observed in survey area F showed a steady increase from January to July, no apparent change from July to September (11.5°C), and a gradual return to the 7°C winter lower through to January 2016.

Median concentrations of chl-*a* varied little from January to May, although there appeared to be a marginal increase over that time. However, surveys conducted in both day and night showed an apparent spike in concentrations in June (about 5.1 µg/L), followed by a return to low concentrations by late-summer (<2 µg/L) and fall (about 0.1 µg/L; Figure 12), and remaining low in November through February. The nighttime ch-*a* data from July were higher than the daytime data from the same month, but showed agreement during the other surveys.

Habitat in Survey Areas
May 20, 2016



NOTES: Dissolved oxygen sensor malfunctioned June and July 2015; values not displayed. Interquartile range shown as vertical bars.

Figure 12 Survey Area F: Water Property Characteristics

Median turbidity values were highly variable from January 2014 through February 2016 (range of about 1 to 15 NTU), with the highest observed median values recorded in July during the daytime survey, and the lowest in February 2015 (Figure 12). The turbidity measured during the July daytime peak was higher than that measured during the nighttime survey, perhaps due to differences in tidal state, currents and influx of suspended sediments from the Skeena River.

Salinity values observed in survey area F were variable (approximate range = 22 – 30 PSU), with the lowest median concentrations recorded in January and May 2015 (approximately 22 PSU) and the highest in November (approximately 30 PSU; Figure 12). Salinity was higher in winter than summer months, although salinity values during June and July nighttime surveys were slightly higher than measured during the June and July daytime surveys.

Dissolved oxygen values observed in survey area F were steady from January to May (at about 6.5 mg/L) and lowest in August and September (<6.0 mg / L) (Figure 12). Median values were relatively high again the following winter, suggesting a possible seasonality where median concentrations dip in summer when water temperatures are highest.

Densities of copepod, cirriped, and other zooplankton were highly variable in samples collected in May, June and July (night surveys only), and median values were higher for these three groups in July relative to daytime observations in August, September and December (Figure 12).

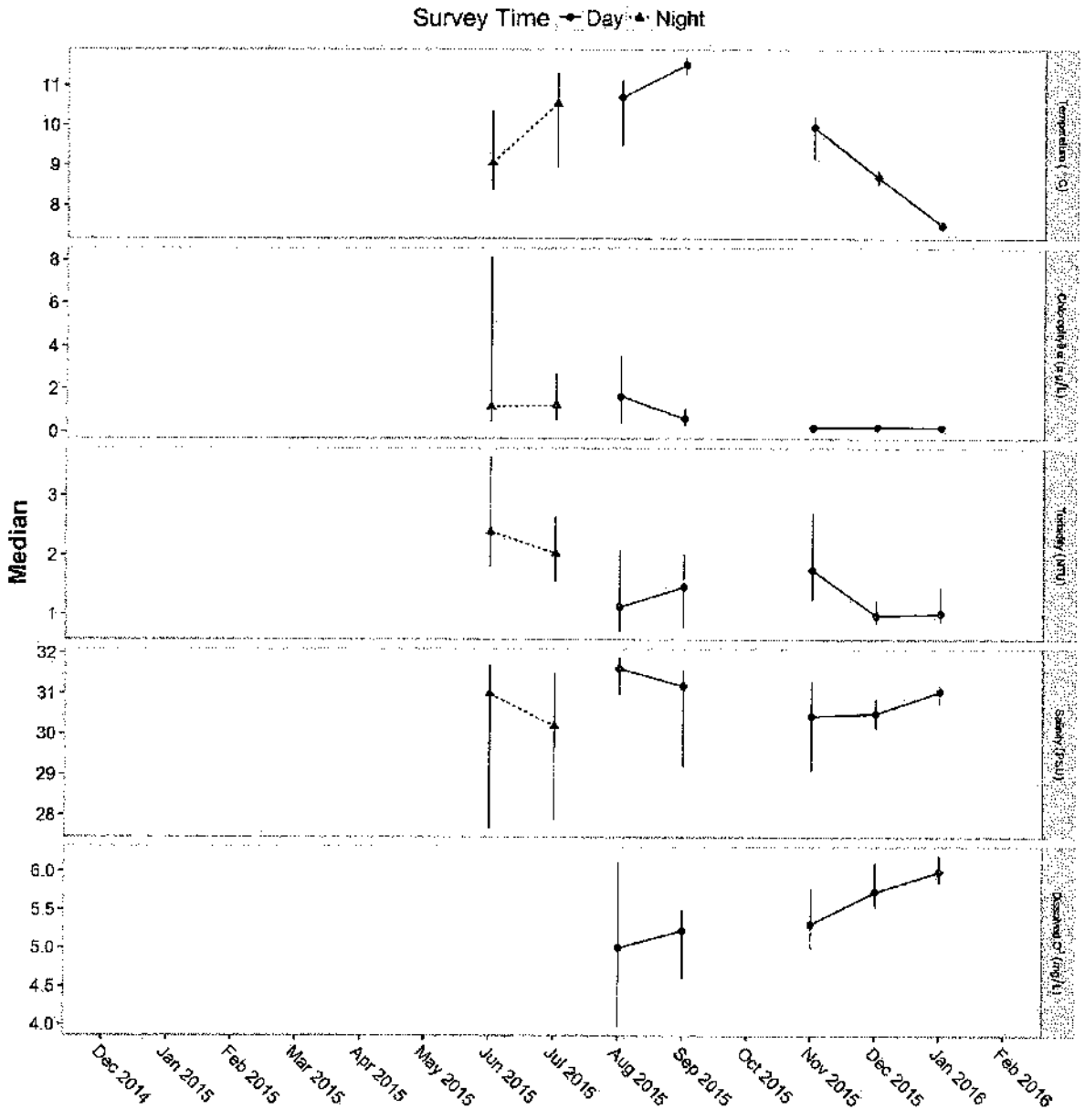
2.3.2.7 Survey Area G

Survey area G includes Marcus Passage, the southern shores of Smith and Croasdaile islands, northern shore of Kennedy Island, and intertidal shoals of southern De Horsey Bank and Base Sand (Figure 2). Marcus Passage is one of three main channels that extend from the mouth of the Skeena River. Water depths in Marcus Passage typically range between about 0 and -37 m CD, except up to -88 m CD in the southwest corner of survey area G, at the north end of Arthur Passage (CHS 2009, Chart 3947). Tidal current speeds through Marcus Passage can reach 2 m/s during the ebb, when the tide combines with outflow from the Skeena River (Conway et al. 1996). The predominant substrates in Marcus Passage are sand and mud (Conway et al. 1996). Sampling in survey area G began in June 2015 and continued until January 2016.

Median temperatures observed in survey area G showed typical seasonal variation with, low temperatures during winter months (January only) and higher temperatures in the summer and fall. Median temperature was observed to peak in mid-September at about 11.0°C (Figure 13).

Median monthly values of chl-a remained at or below 2 µg/L from June 2015 to February 2016, with a modest increase in median concentrations and variance in July and August (Figure 13).

Median turbidity was relatively low in winter (i.e., November to January), and higher in summer (i.e., June and July) (Figure 13). However, median turbidity values showed relatively small changes from month to month within both seasonal time periods. The range of turbidity observed was higher during June and July than the rest of the year.



NOTES: Dissolved oxygen sensor malfunctioned June and July 2015; values not displayed. Interquartile range shown as vertical bars.

Figure 13 Survey Area G: Water Property Characteristics

Median salinity in survey area G was relatively consistent and salty throughout the year in comparison to other survey areas that showed large month to month changes; median values ranged from about 30 to 31.5 PSU from June 2015 through January 2016.

Median dissolved oxygen increased from August and September (~5 mg/L) to January (~6 mg/L), perhaps related to lower water temperatures (Figure T3) and reduced seasonal discharge from the Skeena River.

Zooplankton were not collected in survey area G during the Program.

2.3.2.8 Survey Area H

Survey area H encompasses Inverness Passage and Eleanor Passage, which channel outflow from the Skeena River between the mainland and the northeastern shores of De Horsey and Smith islands (Figure 2). Maximum water depth is about -8.5 m CD in Inverness Passage and -9.8 m in Eleanor Passage (CHS 2009, Chart 3947). The majority of Eleanor Passage is intertidal, except for a narrow shallow subtidal channel located close to the northeast coast of De Horsey Island. Inverness Passage is narrower and shallower than both Marcus and Telegraph passages and is reported to channel 25% of the discharge from the Skeena River (Conway et al. 1996). Tidal current speeds during the ebb are estimated at 1.5 m/s, when the outgoing tide combines with the river outflow (CHS 2009, Chart 3947).

The substrate in survey area H varies from hard ground with areas of medium to fine sand in Inverness Channel (McLaren 2016) to sand and gravel in Eleanor Passage (Conway et al. 1996).

No systematic water property collections were carried out in area H, but see Appendix E, Table E.2.1 for exploratory water property results.

2.3.2.9 Survey Area I

Survey area I includes the mouth of the Skeena River, the northeast end of Telegraph Passage, and Robertson Bank (Figure 2). Within survey area I, Telegraph Passage descends to a maximum depth of about -23.6 m CD near the east coast of De Horsey Island (CHS 2009, Chart 3947). Similar to Marcus Passage, strong tidal currents flow through Telegraph Passage and current speeds may be up to 2 m/s on the ebb when the tide and river outflow combine (Conway et al 1996). Sand and gravel form the main substrates within survey area I (Conway et al. 1996).

No systematic water property collections were carried out in area I, but see Appendix E, Section E.2.1 for exploratory water property results.

2.4 SUMMARY

The habitat attributes of the nine survey areas were defined and described based on literature review and field observations. Common biophysical attributes across the survey region included: intertidal soft-sediment habitats with eelgrass; intertidal soft-sediment banks; intertidal sand and gravel habitats; shallow subtidal soft-sediment banks; deeper subtidal soft-sediment habitats; channels influenced by tidal currents and moderate freshwater outflow; and, channels strongly influenced by freshwater outflow and tidal currents.

Water properties within each of the nine survey areas was further characterized using field observations of water temperature, chl-a, turbidity, dissolved oxygen, and abundance of three groups of zooplankton taxa.

Water temperature data showed seasonality in all survey areas, with warmer temperatures in summer months and cooler temperatures in winter months. Chl-a followed a similar seasonal pattern, peaking in early summer, and lower concentrations the rest of the year.

Turbidity and salinity, both influenced by freshwater input from the Skeena River, showed seasonal turbidity peaks and decreased salinity in spring in survey areas A, B (nighttime data), C, and D (daytime data), associated with the spring freshet from the Skeena River. Trends were not apparent in other survey areas, and may be influenced by fluctuating tidal states at the time of sampling. Dissolved oxygen levels were lowest in August and September, but the lack of a complete data set (due to a meter malfunction) does not permit identification of trends.

Zooplankton was grouped by copepods, cirripeds, and other taxa combined. Data points were sparse (i.e., only three months sampled during daytime surveys and three during nighttime surveys), making identification of seasonal patterns difficult. However, across all survey areas, the highest median value were generally observed in June and July, and lowest median values were observed during the daytime surveys in August, September, and December.

Zooplankton was grouped by copepods, cirripeds, and other taxa combined. Data points were sparse (i.e., only three months sampled during daytime surveys and three during nighttime surveys), making identification of seasonal patterns difficult. However, across all survey areas, the highest median value were generally observed in June and July, and lowest median values were observed during the daytime surveys in August, September, and December 2015.

3.0 TEMPORAL AND SPATIAL DISTRIBUTION OF FISH AND INVERTEBRATES

3.1 INTRODUCTION

Marine habitats in the survey region and the larger northeast Pacific Ocean are considered diverse and productive (Clark and Jamieson 2006a, 2006b) and occupied by a variety of pelagic and benthic marine fish species (Hart 1988). The survey region provides rearing and migratory habitats for adult and juvenile Pacific salmon and eulachon (Manzer 1956; Higgins and Schouwenburg 1973; Department of the Environment 1973; DFO 1985; McCarter et al. 1986; Hyatt et al. 2007; Beacham et al. 2014). It supports locally important CRA marine fish species, including Pacific herring, surf smelt, larval fish (including eulachon), starry flounder, English sole, and Dungeness crab.

A variety of sampling techniques were used to identify and describe the fish and invertebrate species present in the survey region (Program objective 2), identify spatial and temporal patterns of distribution, abundance, and biological characteristics for fish and marine invertebrates in the survey region (Program objectives 3 and 4), and identify salmon smolt prey items through examination of stomach contents (Program objective 5).

3.2 METHODS

3.2.1 General Temporal Patterns in Distribution and Relative Abundance of Fish

3.2.1.1 Purpose and Technical Background

General patterns in the spatial distribution and relative abundance of fish over time were examined using hydroacoustic survey results. Hydroacoustic surveys use high frequency sound pulses ("pings") sent through the water column by an acoustic transducer. The transducer then detects and characterizes the energy of echoes returning from objects in the water. Target strength (TS) is a measure of echo intensity. Fish that are larger and have a greater difference in density compared to the surrounding water have higher TS values than small fish or those without a swim bladder. For many species, TS is reasonably well known and hydroacoustic TS results can be used to obtain an understanding of fish size distribution contributing to the potential identification of species present in an area.

The ratio of the intensity of the energy returning through a volume of water to the intensity of the energy sent out is termed the 'volume backscattering coefficient' (sv) and is a metric used in hydroacoustics analysis as a basis to estimate fish abundance (Simmonds and MacLennan 2003). When the logarithm of sv (Sv) is averaged over a range interval and unit distance, it is termed

'Mean Volume Backscattering Strength' (MVBS). When integrated over the entire water column, MVBS can be used as a standardized measure of relative fish biomass density (RFBD) [Food and Agriculture Organization of the United Nations (FAO) 1983; Simmonds and MacLennan 2003]. MVBS values are presented in decibels (dB) as negative values. Numbers further from zero (larger negative numbers) indicate less relative biomass and numbers closer to zero (smaller negative numbers) indicate higher RFBD.

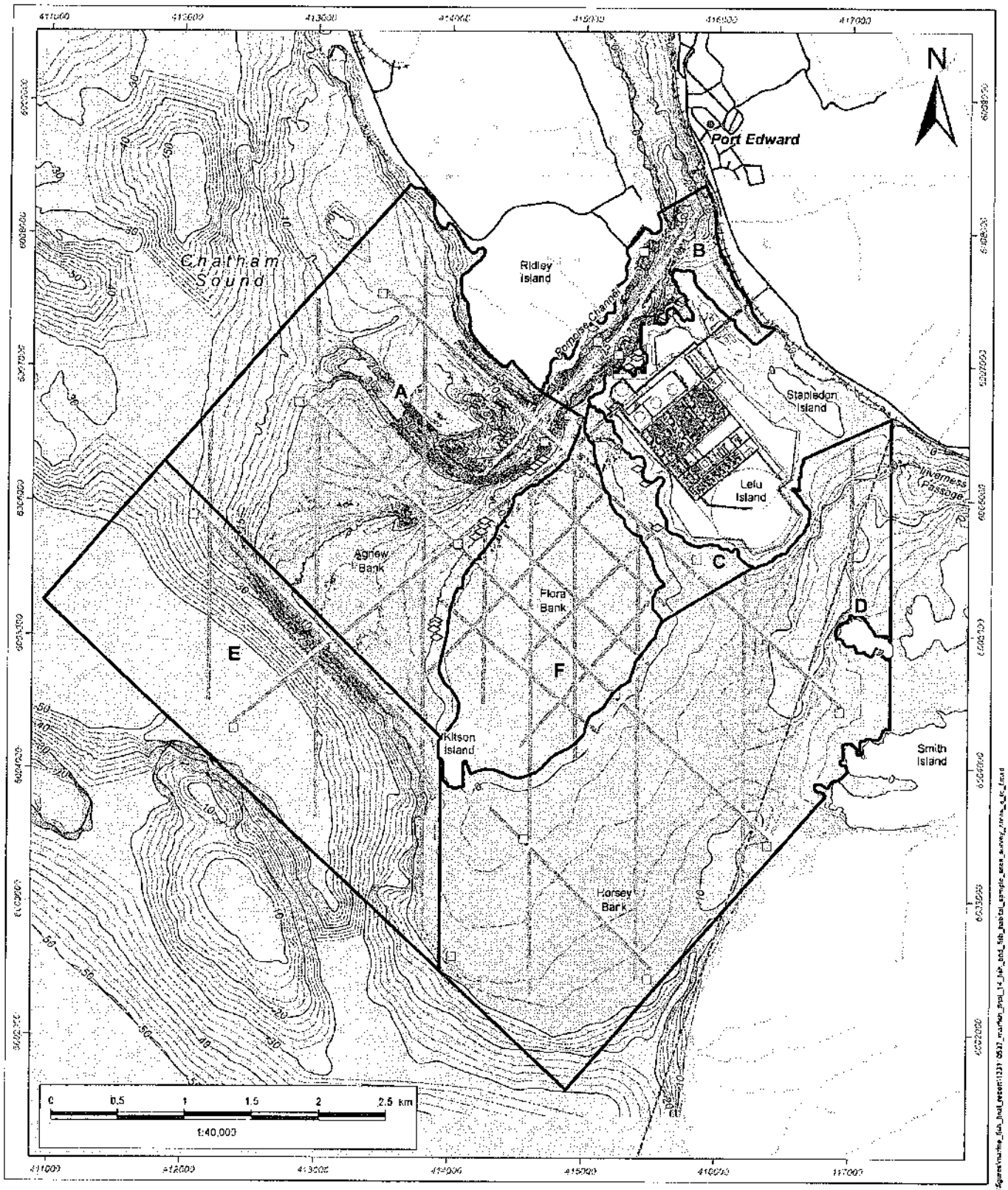
Returning acoustic energy can also be converted into fish density estimates (numbers of fish per area or volume). This is commonly done by a technique known as "echo integration". In echo integration, the total amount of acoustic energy reflected back from fish is scaled by the parameter σ_{bs}, which is equivalent to the amount of acoustic energy per fish (see Simmonds and MacLennan 2003 for a description and review of this established approach to fishery hydroacoustics). The parameter σ_{bs} for these data were estimated using the Visual Analyser software. Estimation of σ_{bs} incorporates a TS threshold value, correlation factors, scaling factors, and sonar system parameters (Biosonics 2015). Specific analysis parameter settings for echo integration are further discussed in the hydroacoustic methods section below.

3.2.1.2 Sample Design

Hydroacoustics were initially used in daytime surveys in January 2015 by sampling four transects across survey areas A through F. A fifth transect was added within Porpoise Channel (survey area B) in February 2015 and a sixth transect was added to the east of Flora Bank (survey area D) in May 2015 (Figure 14). Transects were spaced across the study area and of sufficient total length to enable each transect to be segmented in smaller pieces of either 100 or 500 m to be able to display spatial heterogeneity and to bin them into the six study areas.

In July 2015, daytime hydroacoustic surveys were expanded to three additional survey areas (G, H, and I) south and outside of the immediate vicinity of Project's marine components. The expanded survey included six transects in survey area G (Marcus Passage; Figure 15), three transects in survey area H (Inverness Passage; Figure 16), and three transects in survey area I (Telegraph Passage; Figure 17). In addition, nighttime hydroacoustic sampling was conducted from May through July 2015 in survey areas A through F (Figure 14) and in June and July 2015 in survey area G (Figure 15).

Hydroacoustic data were collected using a 120 kHz DT-X digital echosounder (BioSonics Inc., Seattle, Washington) with an acoustic transducer mounted to an aluminum pole attached over the side of a 5.5 m aluminum skiff. The transducer was positioned looking downward while the skiff traveled at 3 to 4 knots. An onboard BioSonics deck unit processed hydroacoustic signals from the transducer, while a laptop was used to view echograms in real time (via BioSonics Visual Acquisition 6.0 software) and store electronic data files. The coordinates of each ping were determined by an onboard GPS (global positioning system) unit integrated into the deck unit.



City or Town
Project Component
Railway
Road
Secondary Road
Watercourse
Bathymetry (m)
Major Contour
Minor Contour
Survey Area
Prince Rupert Port Authority Boundary
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal
Crab (Daytime) (18)
Beach Seine (Daytime) (24)
Hydroacoustic and Trawl Transect (Daytime) (6)
Hydroacoustic and Trawl Transect (Nighttime) (25)

Pacific NorthWest LNG

Marine Fish Program Sample Sites: Survey Areas A, B, C, D, E, and F

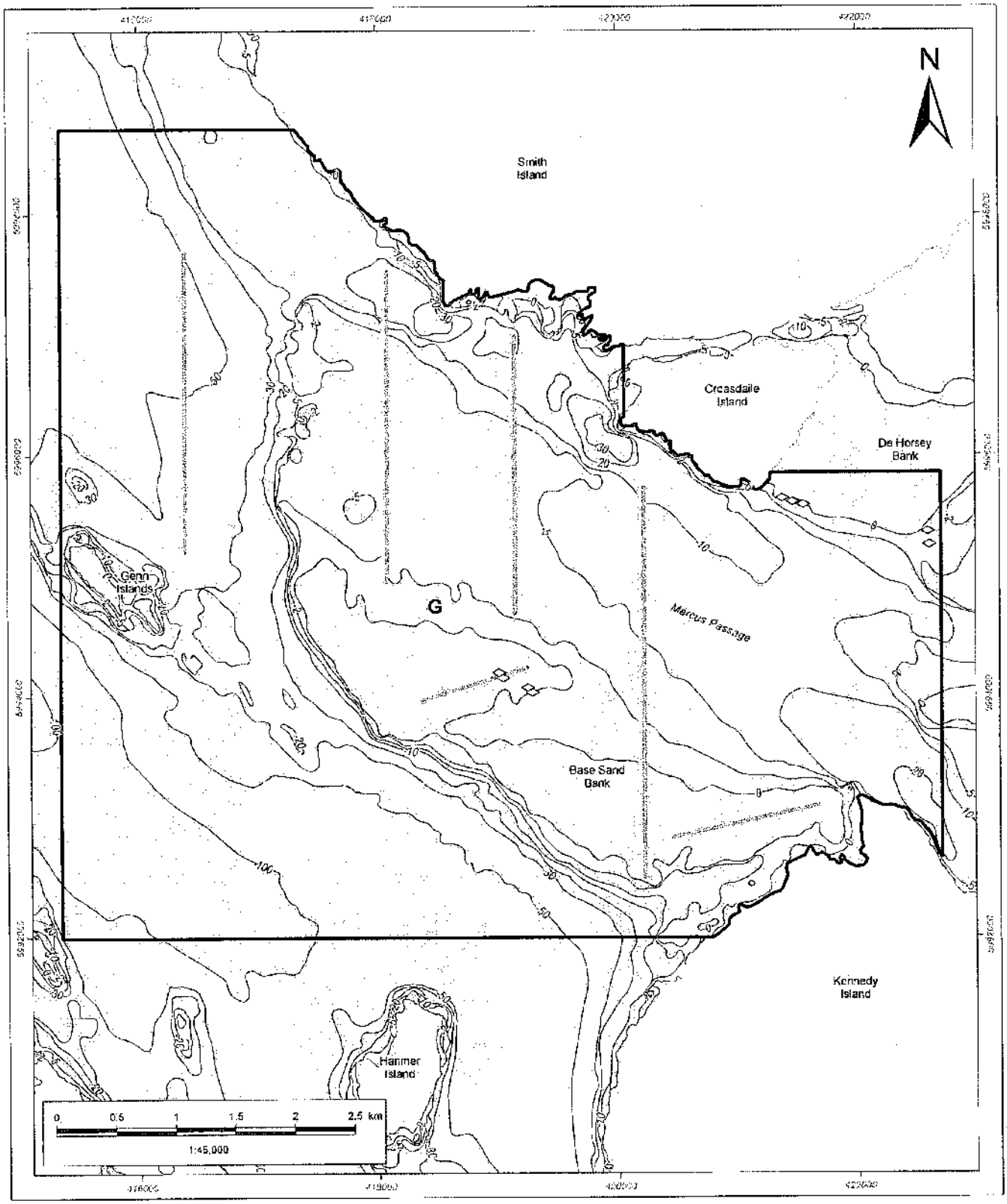
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information. Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 05-MAY-16
FIGURE ID: 123110537
DRAWN BY: R.COATTA
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: L.HOWELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: 14



Watercourse
Bathymetric Contour
Survey Area
Waterbody
Intertidal Bank
Beach Seine (Daytime) (9)
Hydroacoustic and Trawl Transect (Daytime) (6)
Hydroacoustic and Trawl Transect (Nighttime) (6)

Pacific NorthWest LNG

Marine Fish Program
Sample Sites: Survey Area G

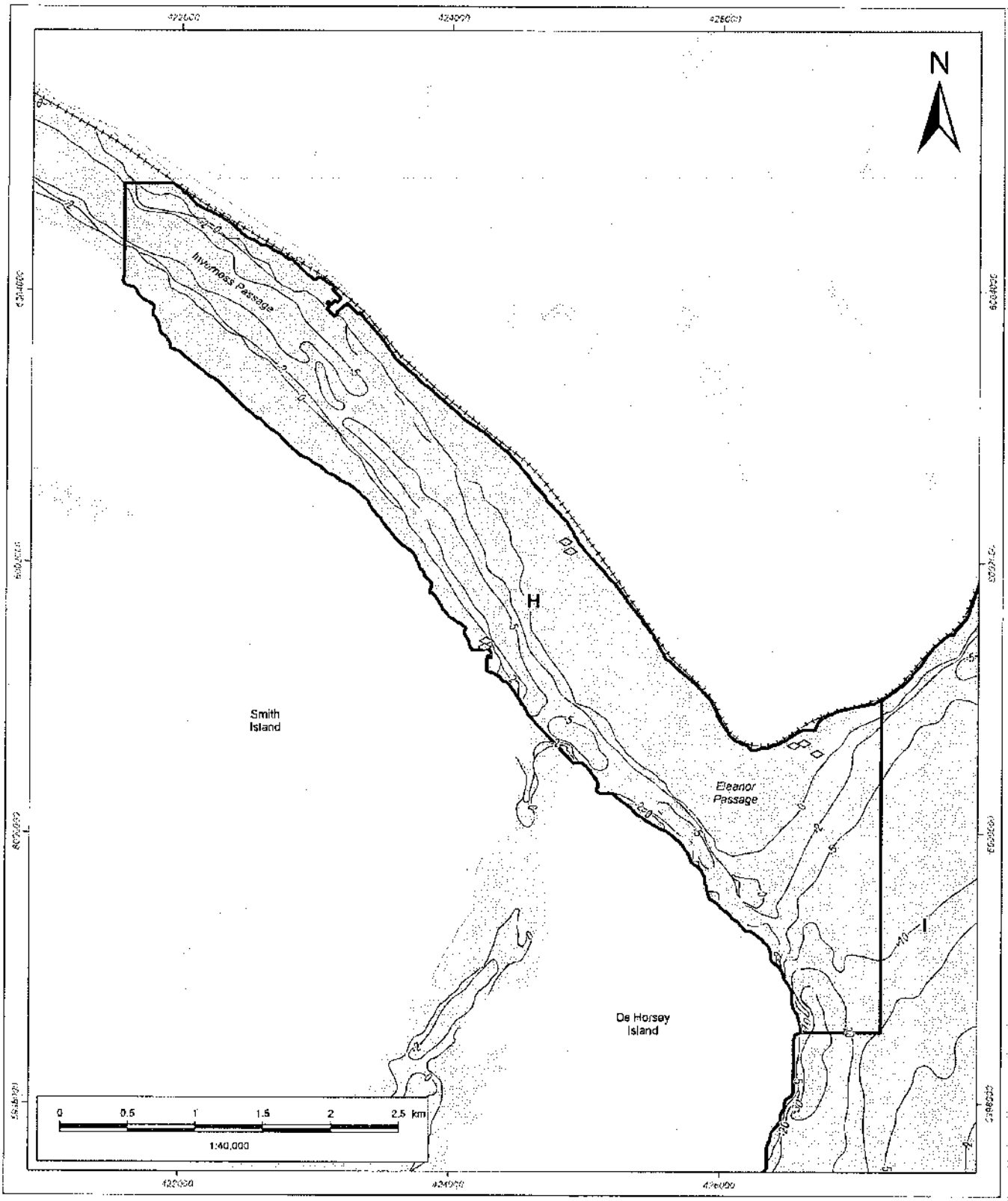
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information, Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 05-MAY-16
FIGURE ID: 123110537
DRAWN BY: R.COATTA
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: L.HOWELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO. 15



Railway
Watercourse
Bathymetric Contour (m)
Survey Area
Waterbody
Intertidal Bank
Beach Seine (Daytime) (7)
Hydroacoustic and Trawl Transect (Daytime) (3)

Pacific NorthWest LNG

Marine Fish Program
Sample Sites: Survey Area H

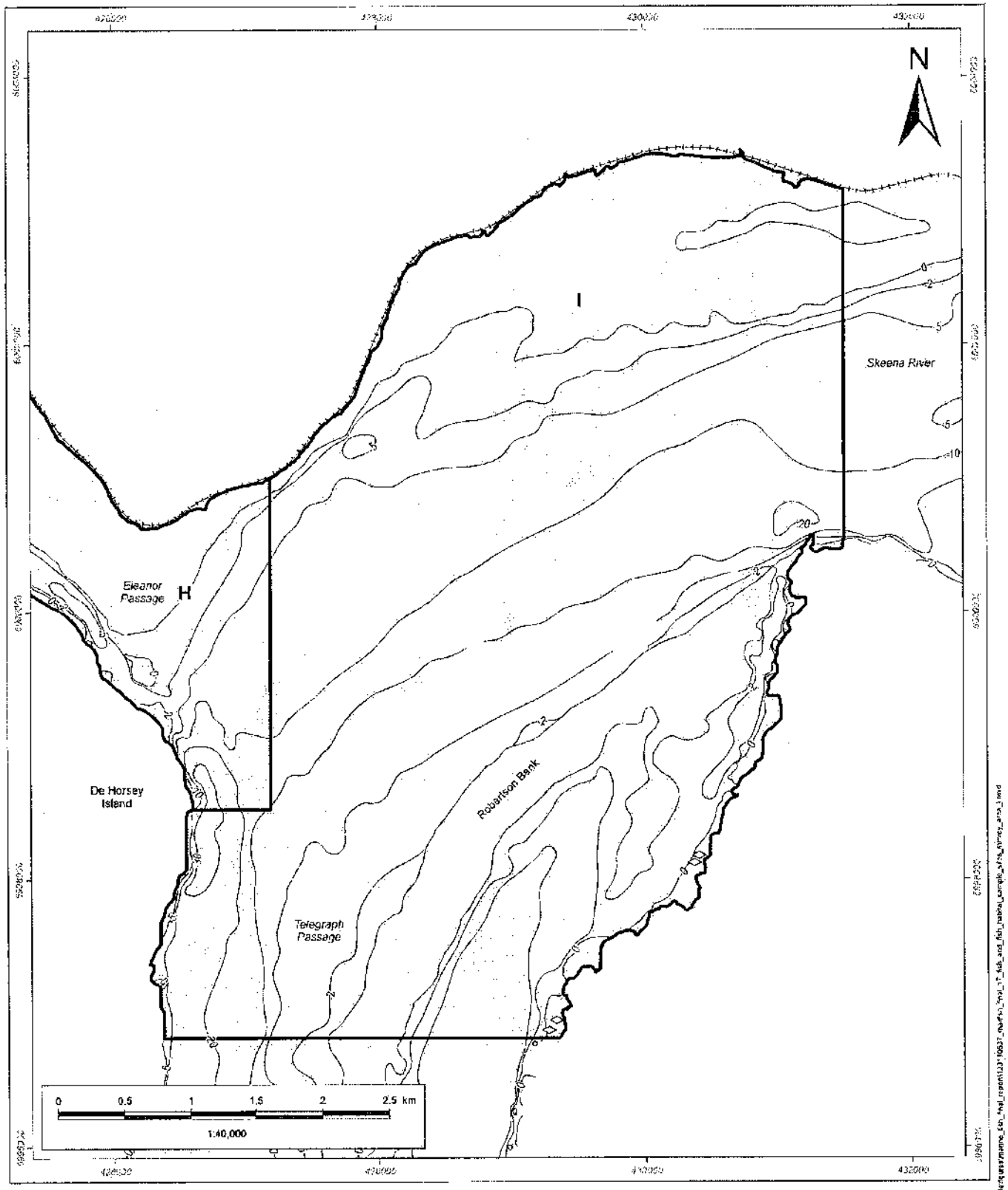
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority, Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 05-MAY-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: L. HOWELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: **16**



Railway
Watercourse
Bathymetric Contour (m)
Survey Area
Waterbody
Intertidal Bank
Beach Seine (Daytime) (4)
Hydroacoustic and Trawl Transect (Daytime) (3)

Pacific NorthWest LNG

Marine Fish Program
Sample Sites: Survey Area I

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 05-MAY-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R.COATTA	CHECKED BY: L.HOWELL

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO. **17**

3.2.1.3 Data Analysis

Raw hydroacoustic data files were processed and analyzed using Visual Analyser 4.2 software (BioSonics Inc.). Interpretation of the echograms was carried out in consultation with hydroacoustic specialists at BioSonics Inc. To facilitate visualization and interpretation of fish biomass and density results, each transect was divided into 100 m segments (for the daytime surveys) or 500 m segments (for the nighttime surveys). For each transect segment, an estimate of MVBS was calculated as the median monthly estimate of relative biomass and fish density for each survey area (using all the MVBS values derived from each transect segment for given survey area). Where possible, fish density (fish per hectare [ha]) was estimated.

3.2.1.3.1 Field Methods

Field calibration checks of the hydroacoustic instrument were done by examining TS of a submerged standardized tungsten ball target. This calibration check technique is consistent with the protocol provided by the instrument manufacturer. Where calibration offsets for the instrument were calculated, they were less than 1 dB away from the theoretical value.

Prior to starting each transect, the depth range of data collection was set to the expected maximum water depth (based chart datum depth, plus a 5 to 10 m margin to reduce the likelihood of 'loosing' the bottom). The ping rate used was typically five pings/second unless a false bottom (a reflection of the bottom that appeared to be in the water column due the influence of surface reflectivity) was noted, in which case the ping rate was reduced to four pings/second. The pulse width was set at 0.4 milliseconds (ms), while the collection threshold was set at -130 dB to capture even acoustically faint targets for further analysis, if desired.

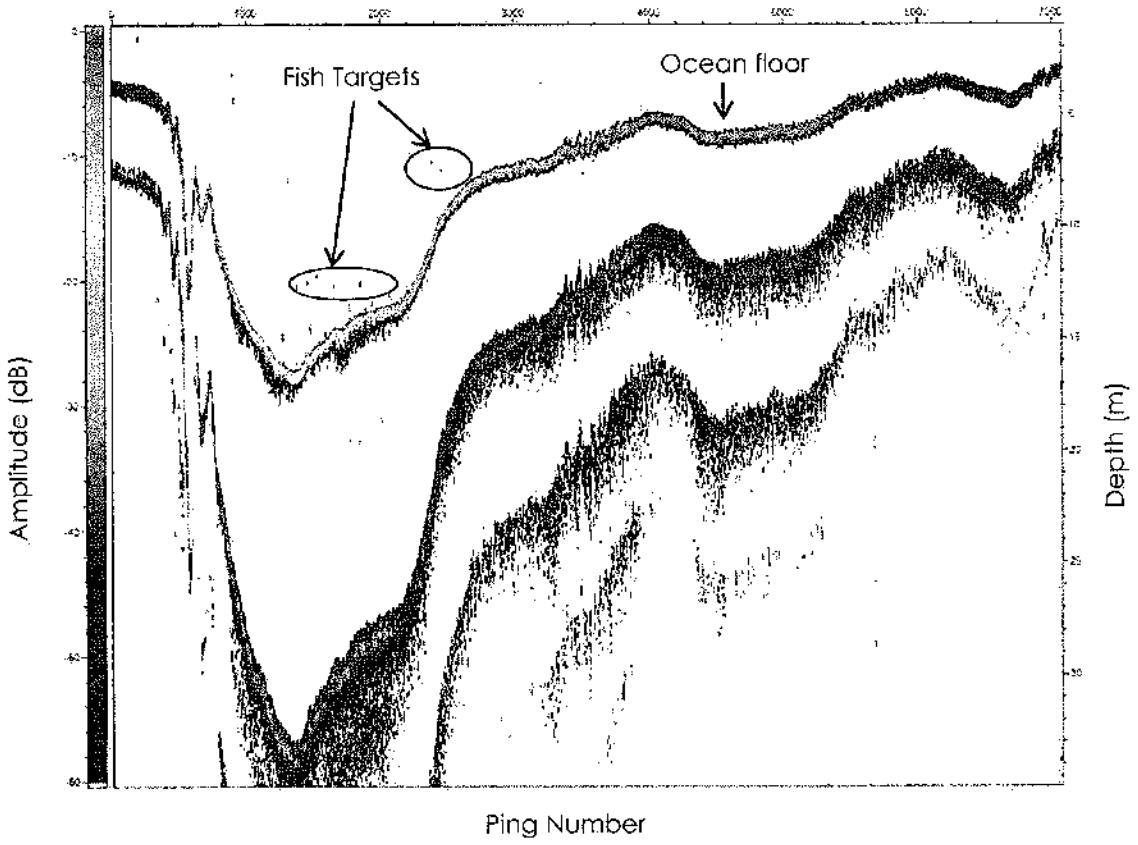
3.2.1.3.2 Analysis Methods

Echograms were imported into Visual Analyser software with site- and survey- specific values for temperature and salinity to fine-tune the calculations of sound transmission speed and increase accuracy of results. Other parameters (correlation factor, minimum pulse width factor, and end point criteria) of echo recognition were left at the default value, except for the 'max pulse width factor', which was set at 1.5 to increase the stringency of the definition of fish echoes and reduce the likelihood of defining 'false targets'. Seafloor contours were manually defined by correcting the automated 'bottom line' to ensure it sufficiently excluded any echoes from the bottom substrate or seafloor vegetation. Surface disturbance was also removed from the analysis of the echogram.

Only acoustic returns with TS equal to or greater than -60 dB were imported into Visual Analyser software for analysis. According to Love's equation (Love 1970), a fish of about 30 mm length (e.g., size of a pink salmon fry) will have a TS of -55 dB. This -60 dB threshold allows for detection of small sized salmon smolts and adult eulachon, which have a low echo intensity (Gauthier and

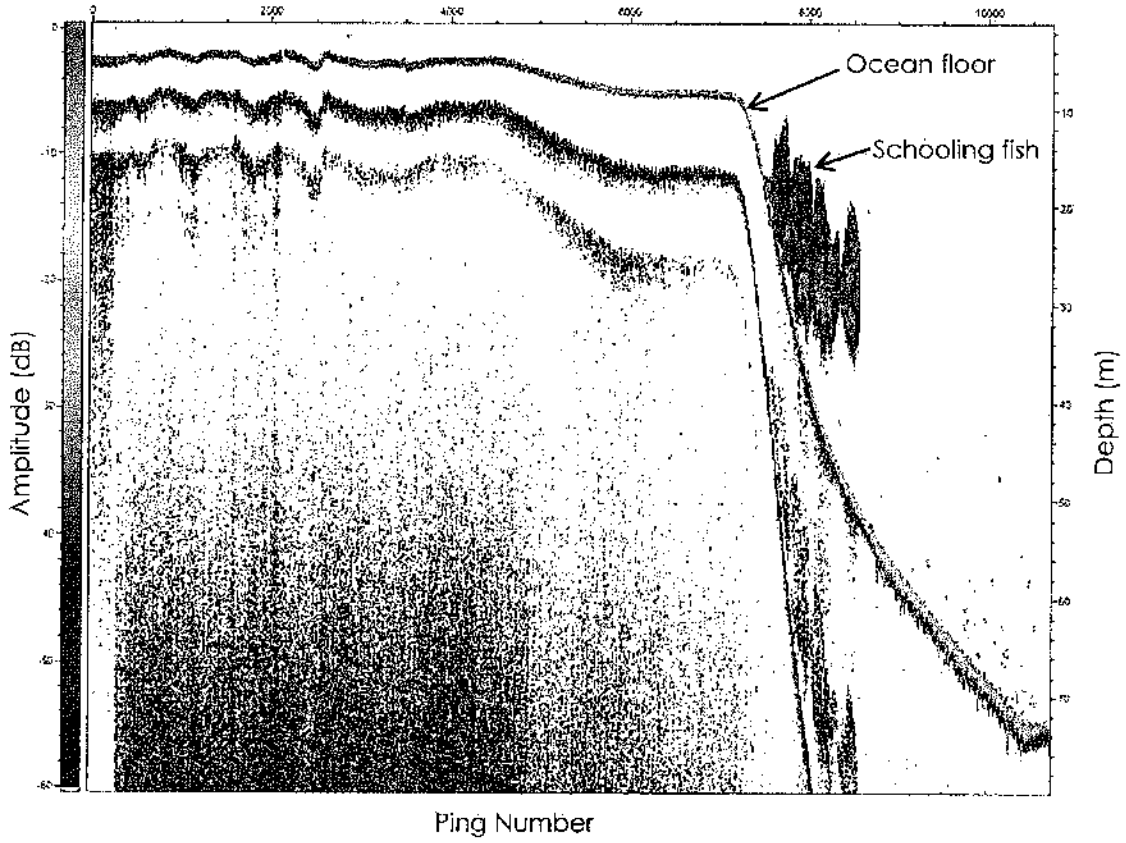
Horne 2004. The -60 dB threshold also limits the possible background sound energy that may be reflected from a high density plankton or detrital layer (Crawford et al. 1992).

Three general classes of acoustic signatures were identified: fish targets (scattered or schooling), surface noise, and plankton (examples are shown in Figure 18 to Figure 21). The characteristics of plankton layers (passive localization in the water column, accumulation in deep water) were confirmed through discussions with technical staff at Biosonics Inc. To accurately estimate fish biomass and density, acoustic energy returning from plankton layers and surface noise were filtered prior to analysis of the echograms for fish signatures. In some instances, a plankton layer (detritus, phytoplankton, and zooplankton) was distinct and created noise that had the potential to mask accurate estimation of fish acoustic energy. As a result, transect segments that contained pronounced plankton layers were excluded from density estimates (shown on the figures in Appendix F as a grey line).



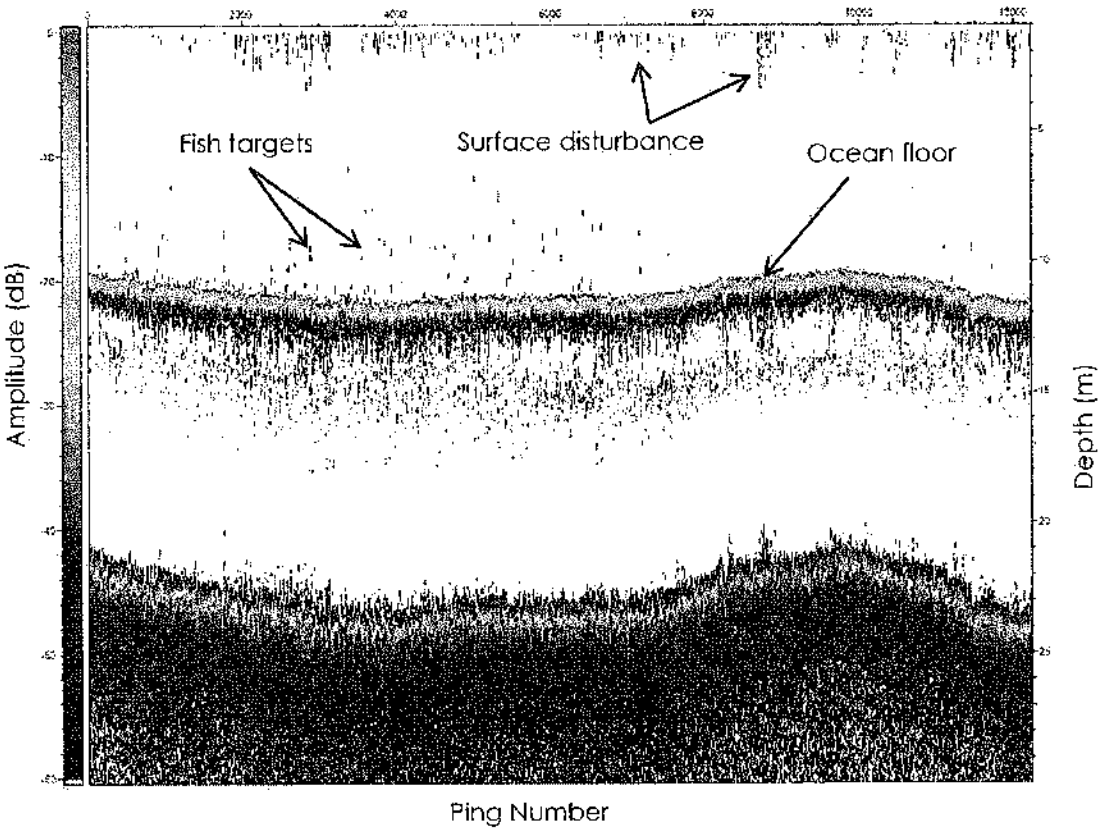
NOTES: Echogram source is Transect T4c Daytime May 21 – 23, 2015.

Figure 18 Echogram Example Showing Scattered Fish along the Bottom Substrate and Mid-Water Column



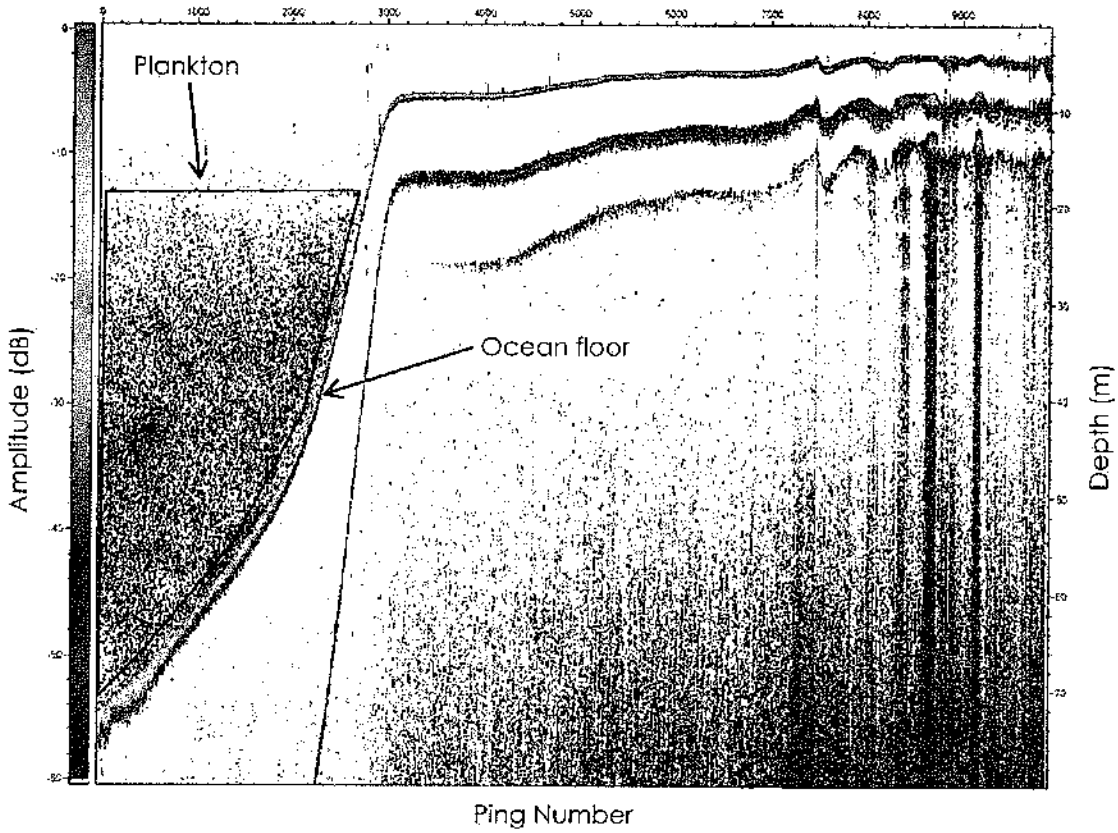
NOTES: Echogram source is Transect 1 (December 9 – 12, 2015 survey).

Figure 19 Echogram Example Showing Schooling Fish (at 10 to 35 m) Along a Slope



NOTES: Echogram source is Transect 1 (November 26 – December 3, 2015 survey) survey area I. The echoes shown above in the surface to approximate 3 m range are examples of echoes that were scored as surface noise most likely due to suspended bubbles. Targets centered around 10 m are scattered fishes. Green band indicates ocean floor.

Figure 20 Echogram Example Showing Surface Noise



NOTES: Echogram source is Transect 1 (July 16 – 23, 2015 survey).

Figure 21 Echogram Example Showing Plankton Accumulation (below 20 m)

3.2.1.3.3 Limitations

The hydroacoustic survey used in this Program allowed for repeated sampling of a large area, yielding a high resolution view of temporal and spatial patterns in RFBD. The use of this survey approach allowed for estimation of RFBD and overall fish abundance, but not species-specific fish abundance estimates. This would require a dedicated ground-truthing program conducted using trawls or other fishing gear to fish the targets identified on the echograms. Net-based ground-truthing is subject to gear-bias and can be labour intensive, especially if sampling deeper waters. Targeted ground-truthing would be necessary to verify the species-specific distribution of fish and confirm the presence and characteristics (depth) of plankton layers. It is possible that small plankton-sized larval fish may make up some of these observed plankton layers in the echograms.

Interpreting patterns of fish detection over shallow waters (e.g., Flora Bank, Base Sand) has limitations needing consideration in sample design. First, the ability for downward-looking echo sounders to detect targets is proportional to water depth; in shallow water, the cone-shaped acoustic beam is relatively narrow and is therefore less likely to detect fish targets, than a wider beam in deeper water where the beam is wider.. Second, the use of mobile hydroacoustic surveys in shallow waters can result in fish avoiding the vessel. To address these issues, effort was made to survey the shallowest areas during the highest possible tide.

Fish abundance in this highly dynamic system shows high variability over short times scales (hours to days, particularly on intertidal Flora Bank) and estimates of fish biomass can be confounded when fishes are found in a tightly packed school. For example, Figure F-13 shows a portion of the same transect (T3a and T3b) that, due to logistical reasons in December 2015, were not wholly sampled at one time. The initial segment (T3a) was sampled at a high ebb tide, while the second (T3b) was sampled three days later at high slack. Where these transect segments overlap, the estimates of RFBD are not the same. This observation underscores the need to survey comparable transects over shallow water very close together in time. To appropriately interpolate between transects, the data must be coherent in time. Logistical circumstances (i.e., tides and concurrent survey demands) prevented a fully synoptic survey in a short enough time frame to ensure accurate interpolation.

3.2.2 Temporal Distribution and Relative Abundance of Focal Species

3.2.2.1 Selection of Focal Species

Five anadromous salmon species (pink, chum, sockeye, coho, and Chinook), three pelagic marine fish species (surf smelt, Pacific herring, and larval fish [a grouping that could possibly include larval eulachon]), and three benthic marine fish species (starry flounder, English sole, and Dungeness crab) were identified as focal species for more in-depth examination of temporal patterns in distribution, abundance, and biological characteristics. These focal species were selected based on known value to CRA fisheries and species of fisheries management concern using the following criteria (details in Table 2):

- Importance as a CRA fishery species or non-commercial supporting fish species as defined by DFO fishery management objectives and First Nation and local interests and concerns
- Committee on the Status of Endangered Wildlife in Canada (COSEWIC) and *Species at Risk Act* (SARA) status
- Catch within other regional fisheries studies
- Available catch and biological data from the 2014 – 2016 Marine Fish Program (reported here)

Table 2 Selected Focal Marine Fish Species Selection and Criteria

Abundant Marine Fish Species Observed in 2014 – 2016 Study	CRA Fishery Species	Non-Commercial, Fisheries Supporting Species	COSEWIC Status	SARA Status	Data Source: Reported Fish Species Capture					Selected Focal Fish Species
					Higgins and Schouwenburg 1973	Anderson 1986	Community Fisheries Development Center 2000-2001	Gottesfeld et al. 2008; Carr-Harris et al. 2013, 2015	Stantec 2014-2016	
Pink Salmon (*Oncorhynchus gorbuscha*)	✓	X	-	-	✓	✓	✓	✓	✓	Yes
Chum Salmon (*Oncorhynchus keta*)	✓	X	-	-	✓	✓	✓	✓	✓	Yes
Sockeye Salmon (*Oncorhynchus nerka*)	✓	X	-	-	✓	✓	✓	✓	✓	Yes
Coho Salmon (*Oncorhynchus kisutch*)	✓	X	-	-	✓	✓	✓	✓	✓	Yes
Chinook Salmon (*Oncorhynchus tshawytscha*)	✓	X	-	-	✓	✓	✓	✓	✓	Yes
Steelhead (*Oncorhynchus mykiss*)	✓	X	-	-	NC	✓	-	✓	NC	No
Dolly Varden (*Salvelinus malma*)	✓	X	-	-	NC	✓	-	-	✓	No
Surf Smelt (*Hypomesus pretiosus*)	✓	✓	-	-	✓	✓	✓	✓	✓	Yes
Pacific Herring (*Clupea pallasi*)	✓	✓	-	-	✓	✓	✓	✓	✓	Yes
Shiner Perch (*Cymatogaster aggregate*)	X	X	-	-	NC	✓	-	-	✓	No
Larval fish (*Chordata spp.*)	NA	X	NA	NA	NC	-	-	-	✓	Yes
Eulachon (*Thaleichthys pacificus*)	✓	✓	SC	-	-	NC	-	-	✓	Integrated as Larval Fish

Table 2 Selected Focal Marine Fish Species Selection and Criteria

Abundant Marine Fish Species Observed in 2014 – 2016 Study	CRA Fishery Species	Non-Commercial, Fisheries Supporting Species	COSEWIC Status	SARA Status	Data Source: Reported Fish Species Capture					Selected Focal Fish Species
					Higgins and Schouwenburg 1973	Anderson 1986	Community Fisheries Development Center 2000-2001	Gottesfeld et al. 2008; Carr-Harris et al. 2013, 2015	Stantec 2014-2016	
Starry Flounder (*Platichthys stellatus*)	✓	X	-	-	✓	✓	-	-	✓	Yes
English Sole (*Parophrys vetelus*)	✓	X	-	-	NC	✓	-	-	✓	Yes
Dungeness Crab (*Metacarcinus magister*)	✓	✓	-	-	NC	✓	-	-	✓	Yes
Sand Sole (*Psettichthys melanostictus*)	X	X	-	-	✓	✓	-	-	✓	No
Tubesnout (*Aulorhynchus flavidus*)	X	X	-	-	NC	NC	-	-	✓	No
Pacific Snake Prickleback (*Lumpenus sagitta*)	X	X	-	-	-	✓	-	-	✓	No
Crescent Gunnel (*Pholis laeta*)	X	X	-	-	NC	✓	-	-	✓	No
Pacific Staghorn Sculpin (*Leptocottus armatus*)	X	X	-	-	✓	✓	-	-	✓	No

NOTES:
"✓" captured and accepted marine fish species
"X" not commercial, recreational and aboriginal fishery species and non-supporting fish species
"NC" not captured
"NA" not applicable
"SC" Special Concern
"-" not reported

3.2.2.2 Methods

Temporal patterns in distribution and relative abundance of focal species were examined using various gear types (beach seines, trawls, and crab traps), depending on species and habitat.

3.2.2.2.1 Beach Seine

3.2.2.2.1.1 Purpose and Sample Design

Beach seining was included in the Program as a standard method, used to sample composition, abundance, and distribution of marine fish species in nearshore habitats (nearshore intertidal and shallow subtidal) (Conlin and Tutty 1979; Johnson et al. 2007).

Suitable beach seine sites within a given survey area were selected based on availability of beach where a net could be fished effectively. The initial survey design prioritized sampling effort in the vicinity of the Project's marine components (survey areas A and B). The western side of Flora Bank (survey area A; 12 sampling sites selected) and Porpoise Channel (survey area B; nine sampling sites selected) were identified as key area for nearshore fish sampling sites (Figure 14) based on the location of proposed Project infrastructure, substrate, hydrodynamic conditions (Hatch 2014, Stantec 2015), and fishing and shoreline knowledge and experience. Flora Bank (survey area F) was not directly sampled using beach seines because it was not considered safe or feasible, given rapid changes in tide heights across a shallow intertidal area. Fyke nets were used, but as they could not be employed reliably on Flora Bank at the same sample site each time (i.e., sample site was dependent on tides, access, safety), they are only reported as an exploratory sampling method (Section E.5).

Beach seining was expanded in May 2015 to include three additional sample sites in the channel between Lelu Island and Flora Bank (survey area C, Figure 14). Beach seine sites were also added in June 2015 in Marcus (survey area G; nine sampling sites on De Horsey Bank and Base Sand; Figure 15), Inverness (survey area H; seven sampling sites; Figure 16), and Telegraph (survey area I; four sampling sites; Figure 17) passages.

3.2.2.2.1.2 Field and Analysis Methods

Beach seine sets in survey areas A, B, G, H, and I were conducted with a 12 m long by 1.5 m deep net (6 mm mesh at tow ends and 4 mm mesh at the bunt). Each beach seine was set by two crew members. One would pull the net out perpendicular to shore into ~0.8 – 1.2 m water depth. Then both crew members would pull their net ends parallel to shore towing the net a given distance before circling the net and hauling into shore. A larger net (22 m long by 3 m deep, 13 mm mesh at the tow ends and 6 mm mesh at the bunt) was employed at the deeper sampling sites in survey area C, where wading was impractical. For these sets, the deep-water end of the net was pulled using a skiff.

All fish caught were identified to the lowest practicable taxonomic level (usually to species), a sub-set of fish was measured for length (size), and all were live-released. Set start and end coordinates were recorded and used to estimate a standard median set length for each sampling site. Seine net set width was estimated in the field or from photos and used, along with set length, to calculate total area sampled (m^2). Catch per unit effort (CPUE) was calculated as the number of individuals per 100 m^2 of seined area. To emphasize temporal trends within a given survey area, CPUE estimates for each set were log-transformed prior to visualization.

3.2.2.2.2 Trawl

3.2.2.2.2.1 Purpose and Sample Design

A trawl net was towed along transects concurrently with hydroacoustics to estimate the relative abundance of nearshore surface fish (0.5 to 2.5 m depth range) across the survey areas and over time. The net was used from February 2015 onward and fished along transects across survey areas A through F (Figure 14). Trawling was also conducted at night from April to July across survey areas A through F and in June and July in survey area G (Figure 15). Daytime trawling was extended in June 2015 to survey areas G (Figure 15), H (Figure 16), and I (Figure 17).

3.2.2.2.2.2 Field and Analysis Methods

The 2 x 2 m Tucker trawl (50 mm to 6 mm graded mesh panels with a mesh tunnel in the last third of the net, 350 micrometre cod end) was deployed at the start of a transect, towed 100 m behind the vessel, and retrieved at the completion of the transect length. All fish and invertebrates captured were identified to the lowest practicable taxonomic level (usually to species), a sub-set was measured for length, and all were released (with the exception of salmon smolts). Catch was standardized to number of individuals per 15 minutes of trawling and, as with beach seine data, were log-transformed for presentation of results.

3.2.2.2.3 Crab Trap

3.2.2.2.3.1 Purpose and Sample Design

Crab trapping was undertaken with the daytime fish surveys, to assess and characterize the distribution, relative abundance, sex ratio, and shell state (i.e., hardness category: soft or hard) of Dungeness crabs in the vicinity of the Project's marine components. Traps were set at 24 sample sites during each daytime fish survey starting in December 2014 (eight sample sites in survey area A, four in survey area B, six in survey area D, and six in survey area E; Figure 14). Crab trapping effort was adjusted in June 2015 to balance effort and sampling schedules and was reduced to 18 sample sites set during daytime fish surveys (four in survey areas A and B, one in survey area C, five in survey area D, and three in survey area E; Figure 14). Crab traps were not set on Flora Bank (survey area F) given the tide heights and intertidal areas, and the potential for crab mortality as a result of prolonged exposure during dry low tide. DFO permits also do not allow trapping in intertidal areas.

3.2.2.2.3.2 Field and Analysis Methods

Commercial grade crab traps (0.91 m bottom ring, 0.86 m top ring, two 105 mm escape hatches, 25 mm weight bar, wrapped in standard mesh [0.05 m diamond weave]) were set using established crab sampling protocols (Dunham et al. 2011). Traps were baited with a single large herring (cut in half) and set to soak for 18 to 24 hours. All crabs were identified to species, sexed, measured for carapace width and shell state, and weighed (see Section 3.2.3). Monthly catch in a given survey area is reported as number per 24 hour soak period.

3.2.3 Demographics of Focal Species

All fish captured were identified to the lowest practicable taxonomic level (usually to species) and assessed visually for injuries and abnormalities. To examine life stages (using size [length] as a surrogate for 'stage'), a sub-set of ten individuals of each species at each sample site (e.g., seines, trawls) was measured for fork or total length (dependent on size and species). Dungeness crabs were also sexed, measured (carapace point width [mm]), weighed (grams [g]), and assessed visually for injuries and abnormalities (e.g., missing limbs or cracked shell). Crab shell hardness was assigned based on hard- or soft-shelled categories (DFO 2014). All fish and crabs were captured under DFO scientific collection permits[3] and live-released at (or nearby) the location of capture. Salmon smolts were also assessed the same way, but most salmon smolts were retained for stomach content analysis (Section 3.2.3.1).

Data from beach seines, trawls (2 x 2 m tucker trawl), and crab traps (for Dungeness crab only) were used to generate size (length) frequency distributions. Life stages were assessed by plotting the kernel density distribution using these size frequency data (i.e., the kernel density distributions are predicted, smoothed versions of the actual data—not all sizes of fish shown across the range were actually caught). Daytime and nighttime data are presented separately on each figure. Density distributions were plotted for each month and each survey area where sufficient data existed (in some months, too few individuals were caught and measured to allow a kernel density to be plotted) (Section 3.3.3).

[3] Licence numbers include: XR 123 2015 (valid 01-Aug-2015 to 31-Dec-2015); XR 124 2015, Amendment 1 (valid 16-June-2015 to 31-Dec-2015; XR 125 2015, Amendment 1,2, 3 (Valid 24-April-2015 to 31-Dec-2015); XR 181 2015 (Valid 05-June-2015 to 31-Jan-2016); XR 205 2014, Amendment 1, 2 (Valid 15-June-2014 to 15-June-2015); XR 283 2014 (Valid 01-Aug-2014 to 01-Aug-2015); XR 284, Amendment 1 (Valid 01-Aug-2014 to 01-August-2015); XR 365, 2014-Amendment 1 (Valid 01-Oct-2014 to 01-Oct-2015)

3.2.3.1 Salmon Smolt Stomach Sampling

3.2.3.1.1 Purpose, Field and Analysis Methods

Salmon stomachs were examined to estimate prey items and presence. Salmon smolt stomach samples were retained from May 2015 to February 2016 under a DFO scientific sample collection permit (permit obtained May 2015). Salmon captured in early surveys prior to obtaining the permit were not retained for stomach content analysis. Salmon smolts captured were generally retained for stomach content analysis during nighttime surveys from May to July 2015 and during daytime surveys from July to December 2015. Salmon smolts were euthanized using clove oil and flash frozen on dry ice. Whole fish were sent to Biologica Environmental Services Ltd. to confirm species identification, measure biological characteristics, and analyze stomach contents.

Frozen stomachs were dissected from each fish and immediately measured for frozen and wet thawed weights. Stomach contents were assessed for content fullness, condition of digested prey, and count of prey taxa. Fullness was estimated based on a scale of 0 – 100%, with 0% being empty, 10% trace of prey, 50 – 75% full, and 100% distended. Digestive condition of individual prey items was assessed on a scale of 0 – 100%, with 0% being an intact full prey and 100% being a fully digested, often unrecognizable, prey item. Prey were identified to the lowest possible taxonomic level, enumerated, and weighed (wet thawed weight ±0.0001 g).

For each salmon species, prey taxa are expressed as the number of individuals of a given taxa as a percent of total individuals (%N) and the frequency of stomachs where that prey taxon was identified (%F) (Hyslop 1980).

3.2.4 Exploratory Sample Methods

A number of additional fish sampling methods were trialed during the Program. These methods did not become a stable component of the Program because of inconsistent sampling effort due to tides, depths, and currents, and high costs in time and effort for fishing each gear type within a given Program schedule. While these exploratory sampling methods were not used systematically, the data obtained provided insight to different sampling options for targeting marine fish species (or life stages). Exploratory sampling methods and data are described in Appendix E.

3.3 RESULTS AND DISCUSSION

3.3.1 General Temporal Patterns in Distribution and Relative Abundance of Fish

3.3.1.1 Fish Relative Biomass Density

Hydroacoustic data were used to estimate median depth-integrated "mean volume backscatter strength" (i.e., median MVBS values) and fish density (fish/ha), when possible. These data were used to examine the spatial and temporal patterns of total fish in the survey region.

3.3.1.1.1 MVBS Interpretation

Median MVBS varied across the survey area throughout the duration of the Program, but provided insights into general patterns of fish distribution in the survey region. Three distinct time periods of fish density were identified: January to April 2015 (late winter to early spring); April to November 2015 (growing season, summer to early fall); November 2015 to February 2016 (fall – winter) (indicated by the dotted vertical lines on Figure 22). The general pattern of fish density across survey areas and time phases suggested that fish density was low during late winter and early spring, increased during the growing season, and declined, but showed a small increase and further decrease in fish density in January 2016—during the late fall and winter period (Figure 22).

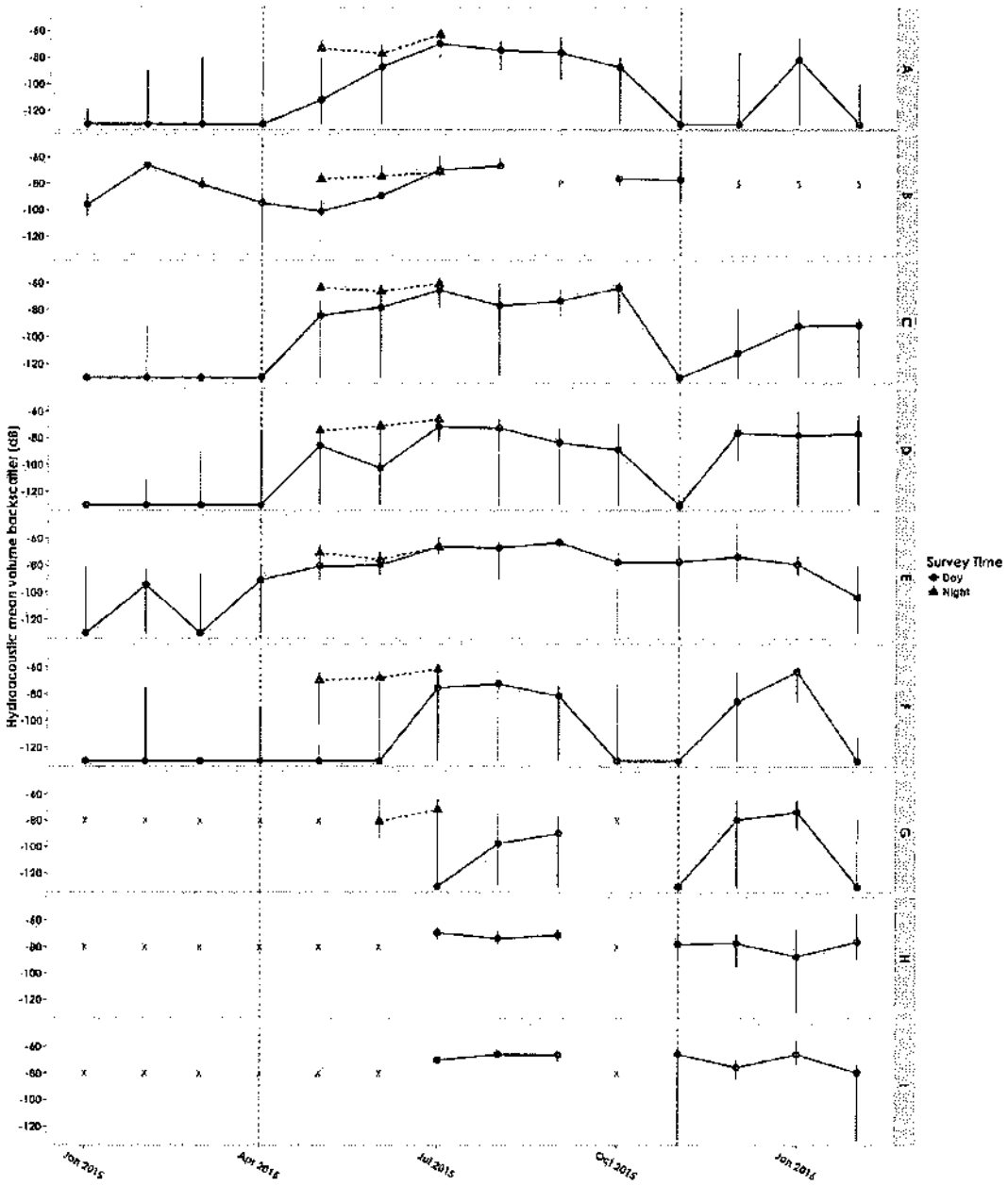
The results for each individual survey are presented as figures showing colour coded MVBS along each transect, for each survey to illustrate estimated RFBD (Appendix F). Figure F-1 through Figure F-39 show the daytime surveys colour coded in 100 m segments and Figure F-40 through Figure F-49 show the nighttime surveys colour coded in 500 m segments. For the daytime surveys carried out from February 11 – 17 (Figures F-15 and F-24), there was a failure in the continuous recording of GPS positions so the data were plotted along an idealized transect constructed from the recorded start and stop positions of the transect.

Survey Area A

During the daytime, survey area A contained low RFBD (median MVBS -130 dB) in January 2015 through April 2015, with only a few scattered 100 m segments near the opening of Porpoise Channel and along the northwest margin of Flora Bank with MVBS values of greater than -80 dB. After April, RFBD increased steadily to a peak in July (median MVBS -70 dB) (Figure F-1 to Figure F-4). The increases in RFBD were detected along all transects in this area, with increases particularly notable along the northern end of the trestle alignment (transect T1b) and at the northern ends of transects T3 and T4; however, the density of plankton at the southern end of Transect T5, at the entrance to Porpoise Channel, blocked estimation of fish biomass. RFBD remained relatively high from August through October, with a gradual decline from the July peak. RFBD was again most noticeable near the opening to Porpoise Channel and along the trestle alignment (Figure F-7 to Figure F-11). RFBD then decreased in November and early

December (median MVBS -130 dB), with only a few scattered 100 m segments showing a MVBS greater than -80 dB (Figure F-12 to Figure F-13). A slight increase in RFBD was observed during the mid-December survey along the northern end of transect T3b and near the intersection of Transect T3b and T1 near the trestle alignment. A spike in RFBD (median MVBS -82 dB) was observed during January 2016, with RFBD again higher than background near the intersection of transect T3b and T1 and along the southern end of the trestle alignment as well as along the middle and southern end of transect T6 (Figure F-14), before declining again to lower relative density (median MVBS -130 dB) in February, with only scattered 100 m segments higher than -80 dB seen along most transects, with a concentration of fish biomass at the southern ends of transects T6 and T2A (Figure F-15).

In the May through July 2015 nighttime surveys, survey area A showed consistently high RFBD (median MVBS -77dB to -63 dB, Figure 22). In May, RFBD was highest toward the southwest corner of the survey area adjacent to and on top of Agnew Bank (Figure F-40 to Figure F-42). RFBD densities diminished slightly during the June surveys (median MVBS -77 dB); however, scattered 500 m segments throughout the area remained at moderate to high levels (Figure F-43 to Figure F-44). The July surveys observed an increase in RFBD (median MVBS -63 dB) with moderate to high relative densities observed throughout the survey area (Figure F-46 and Figure F-48).



NOTES:
Dotted vertical lines indicate three distinct periods of fish density.
Error bars represent interquartile range.
X = did not fish.
S = Safety concerns; did not sample.
P = Plankton interfered with recording; data omitted.

Figure 22 **Median Depth Integrated Mean Volume Backscatter Strength (MVBS) per 100 m Segment (Day) and 500 m Segment (Night) by Survey Area**

Survey Area B

For the daytime, survey area B contained moderate RFBD within Porpoise Channel in January 2015 (median MVBS -96dB), which increased along the length of the channel. This increased to a high in February (median MVBS -66 dB) (Figure 22 and Figure F-1 to Figure F-2). From February onward, RFBD decreased steadily from March through May (median MVBS -81 dB to -101 dB), with only a few scattered 100 m segments showing MVBS values greater than -80dB (Figure F-3 to Figure F-5). RFBD again increased throughout Porpoise Channel in June through August (median MVBS -89 dB to -67 Db; Figure F-6 to Figure F-9) with a substantial plankton bloom interfering with fish biomass estimation during the mid-July survey (Figure F-8). October and November revealed scattered 100 m segments with moderate to high RFBD (median MVBS -77dB to -76 dB) within Porpoise Channel (Figure F-11 to Figure F-12). Another substantial plankton bloom interfered with fish biomass data collection during the September survey (Figure F-10). Hydroacoustic sampling could not be conducted during the December 2015-February 2016 surveys due to a safety concern in the area.

In the nighttime, survey area B showed moderate RFBD during the May survey (median MVBS -77 dB) (Figure F-40 to Figure F-42), which increased through June (MVBS -74 dB) (Figure F-43 to Figure F-44) and July (median MVBS -71 dB) (Figure F-46 and Figure F-48). RFBD varied within Porpoise Channel throughout the three months, although the northeast side of Lelu Island (towards Stapleton Island) consistently showed moderate to high RFBD (Figure F-40 to Figure F-44; Figure F-46 and Figure F-48).

Survey Area C

In the daytime, survey area C contained low RFBD (median MVBS -130 dB) from January through April 2015 across the majority of the southeastern portion of transect T4 and the northern portion of T6 and T10. Only a few scattered 100 m segments between the western edge of Lelu Island and the northeastern edge of Flora Bank showed MVBS values greater than -80 dB (Figure F-1 to Figure F-4). RFBD increased in May and June (median MVBS -84 dB to -78 dB). Scattered 100 m segments increased in MVBS between the western and southwestern edge of Lelu Island and the northeastern edge of Flora Bank (Figure F-5 to Figure F-6) (note that in the June survey the central part of Transect T4 was actually located in survey area F). Peak median RFBD for survey area C was observed in July (median MVBS -65 dB) with increases in RFBD observed throughout the southeastern portion of transect T4 and the northern portion of T6 (western and southwestern side of Lelu Island) (Figure F-7 to Figure F-8). RFBD remained relatively high from August through October (median MVBS -77 dB to -64dB) (Figure F-9 to Figure F-11) with the highest RFBD concentrated towards the southern side of survey area C in October (Figure F-11). In November there was a decrease across the southeastern portion of transect T4 and the northern portion of T6 (median MVBS -130 dB) (Figure F-12). RFBD increased steadily from low to moderate in December 2015 through February 2016 (median MVBS -114 dB to -91 dB) with highest RFBD

observed toward the southwestern side (January)(Figure F-14) and western side (February) of Lelu Island (Figure F-15).

Surveys conducted at night in area C showed increasing RFBD throughout May (median MVBS – 63dB) (Figure F-40 to Figure F-42), a slight decline in June (median MVBS – 66dB) (Figure F-43 to Figure F-44), then an increase to peak in July (median MVBS – 60dB) (Figure F-46 and Figure F-48).

Survey Area D

During daylight hours, survey area D contained low RFBD (median MVBS -130 dB) in January through April 2015, with a few scattered 100 m segments showing a MVBS greater than -80 dB, with the highest RFBD during this time occurring off of the southern end of Kitson Island (Figure F-1 to Figure F-4). Median RFBD increased from low to moderate levels in May and June (median MVBS -102 dB to -86 dB). Moderate RFBD was observed within the mouth of Inverness Passage (May), sporadic 100 m segments along the eastern and southern sides of Flora and Horsey Bank, and segments of high relative density were concentrated off the southern side of Kitson Island (June) (Figure F-5 to Figure F-6). Median RFBD continued to increase and peaked in July and August (median MVBS -72 dB to -71 dB), with increases observed consistently throughout survey area D (Figure F-7 to Figure F-9). In September and October, the highest RFBD was observed towards the mouth of Inverness Passage and along the southern side of Lelu Island, and shifted to the southwest along the southern side of Flora Bank, off the southern side of Kitson Island, and out over Horsey Bank (Figure F-10 to Figure F-11). The one exception to this trend occurred during the November survey where low RFBD (MVBS -130 dB) was recorded throughout most of Area D, with a few 100 m segments in an area south of Flora Bank and Kitson Island showing moderate to high MVBS (Figure F-12).

In the nighttime surveys, area D showed an increasing trend in RFBD from May through July (median MVBS -75 dB to -66 dB), with variable fish densities observed across the southern edge of Flora Bank, Horsey Bank, and the mouth of Inverness Passage over the course of the nighttime surveys (Figure F-40 to Figure F-44; Figure F-46 and Figure F-48).

Survey Area E

During the daytime surveys, area E contained low RFBD (MVBS -130 dB) in January and March 2015 (Figure F-1 and Figure F-3), with a slight increase recorded in February (MVBS -95dB) along the southwestern side of Agnew Bank (Figure F-2). RFBD steadily increased at the steep drop-off along the southwestern edge of Agnew Bank and the southern side of Kitson Island (Figure F-4) starting in April (MVBS – 91 dB) and remained at moderate to high levels until January 2016 (MVBS -80dB to -66 dB) (Figure F-14) before decreasing in February (MVBS -103 dB) (Figure F-15). Peak RFBD was observed in July (MVBS – 66 dB) and September (MVBS – 63 dB) (Figure F-7 to Figure F-8 and Figure F-10).

For the nighttime surveys, area E showed moderate to high RFBD during the May surveys (median MVBS -71 dB), predominantly along the steep drop off on the eastern side of Agnew Bank (Figure F-40 to Figure F-42). RFBD in June diminished slightly (median MVBS -75 dB) (Figure F-43 to Figure F-44) before increasing to peak levels in July (median MVBS -66 dB) (Figure F-46 and Figure F-48).

Survey Area F

In the daytime, survey area F contained low RFBD in January through June 2015 (median MVBS -130 dB) (Figure F-1 to Figure F-6); however, scattered 100 m segments did show increasing MVBS across Flora Bank starting in May and June (Figure F-5 to Figure F-6). Relative biomass densities increased dramatically to high levels in July through September (median MVBS -72 dB to -81 dB) with increased fish biomass observed along the transects across Flora Bank (Figure F-7 to Figure F-10). RFBD returned to low levels in October and November (median MVBS -130 dB), with some scattered 100 m sections showing slightly higher MVBS levels along the southern side of Flora Bank (Figure F-11 to Figure F-12). RFBD then rapidly increased again in December 2015 (median MVBS -85 dB; Figure F-13) and peaked in January 2016 with the highest fish biomass densities observed across Flora Bank (median MVBS -63 dB) (Figure F-14). RFBD returned to low levels again in February 2016 (median MVBS -130 dB) (Figure F-15).

At night, survey area F showed moderate to high RFBD (median MVBS – 70 dB) across Flora Bank during the May surveys (Figure F-40 to Figure F-42). RFBD increased steadily through June (median MVBS -68 dB) (Figure F-43 to Figure F-44) and July (median MVBS -61 dB) (Figure F-46 and Figure F-48), with moderate to high relative densities observed across Flora Bank.

Survey Area G

In the daytime, survey area G showed steadily increasing RFBD from low to moderate (median MVBS -130 dB to -90 dB) across Marcus Passage transects in July through September 2015 (Figure F-16 and Figure F-18 to Figure F-19). RFBD returned to low in November (median MVBS -130 dB) throughout the area, with the exception of a couple of 100 m segments at the northern end of transects MP2 and MP3 (Figure F-20). A substantial plankton bloom, which interfered with fish data collection, was observed along transect MP1 during the November survey (Figure F-20). RFBD increased in December (median MVBS -79 dB), primarily along the southern portion of transect MP1 (Figure F-21 to Figure F-22) and reached a peak (median MVBS -73 dB) in January 2016, with moderate to high RFBD observed across five of six transects (Figure F-23). RFBD returned to low in February 2016 (median MVBS -130 dB) across all transects, with the exception of scattered 100 m segments that showed moderate to high RFBD (Figure F-24). Survey area G was not sampled in January through April, mid-July, and October 2015.

The nighttime surveys in area G showed relatively low RFBD in June (median MVBS -81 dB), with the exception of several 500 m segments over Base Sand (transect MP6), MP1, and the northern portion of transect MP2a (Figure F-45). RFBD increased in July (median MVBS -72 dB), with higher fish densities observed along transects located in slightly deeper water (Figure F-47 and Figure F-49). No nighttime surveys were conducted in May in survey area G.

Survey Area H

In the daytime surveys, area H showed low to high RFBD in July through September 2015 (median MVBS -74 dB to -69 dB) across the 100 m segments throughout the survey area H (Figure F-16 to Figure F-19), with the highest RFBDs during this time observed on transects IVT1 and IVT3 during the mid-July survey (Figure F-17). A substantial plankton bloom, which interfered with fish data collection, was observed along transect IVT2 during the mid-July survey (Figure F-17). RFBD continued to vary throughout the survey area in November 2015 through February 2016, with the majority of transects showing low density with scattered 100 m segments of moderate to high relative density (median MVBS -86dB to -77 dB) (Figure F-20 to Figure F-24). Of note, the highest RFBD in January and February occurred along the southern end of transect IV1 towards the southern end of Inverness Passage (Figure F-23 to Figure F-24). Survey area H was not sampled in January through June, nor October 2015. No nighttime surveys were carried out in survey area H.

Survey Area I

Survey area I showed moderate to high RFBD along transects RBT1, RBT2b, and RBT3 during the July surveys (median MVBS -70 dB) (Figure F-16 to Figure F-17). RFBD continued to be moderate to high throughout much of the survey area in August (median MVBS -66 dB) (Figure F-18) and increased along the eastern portion of RBT1 in the shallower water adjacent to Robertson Bank during the September survey (median MVBS -66 dB) (Figure F-19). The November survey revealed low RFBD along the majority of transect RBT1 (adjacent to Robertson Bank), but consistently moderate to high RFBD in slightly deeper water along transects RBT2 and RBT3 (Figure F-20). RFBD increased along several 100 m segments during the December surveys (median MVBS -65) (Figure F-21 to Figure F-22) with the area adjacent to Robertson Bank (transect RB1) showing increased fish densities during the January 2016 survey (median MVBS -75 dB) (Figure F-23). Fish densities declined throughout the survey area during the February 2016 survey (median MVBS -79 dB) (Figure F-24). Survey area I was not sampled in January through June, nor October 2015. No nighttime surveys were carried out in survey area I.

Summary

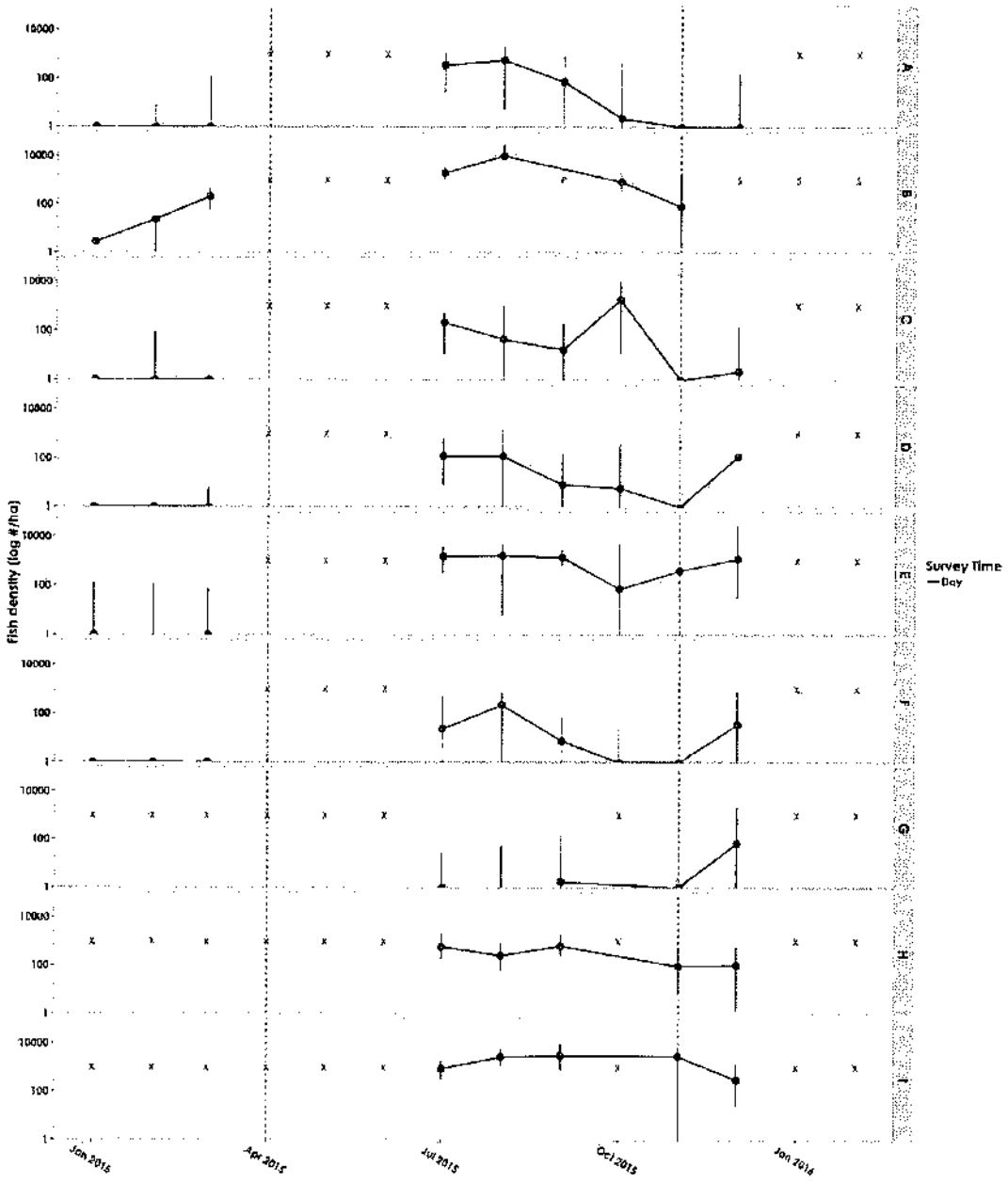
Overall, RFBD was low in the winter (January and February 2015) and began increasing through to July 2015, with the most notable increase between February and April. After July, RFBD started to decline (Figure F-20), yet increased prevalence of schooling fishes was observed in the December 2015 survey around Lelu Island and Flora Bank and in Marcus Passage (Figure F-13 and Figure F-20).

Across the entire annual daytime survey series, consistently higher than background fish presence was noted south of the berthing area, in and just south of Porpoise Channel, southwest and southeast of Kitson island, and along the southeast margin of Flora Bank, southwest of Lelu Island and along the northern margin of Flora Bank and on central Flora Bank.

3.3.1.1.2 Fish Density Per Hectare (ha)

As a result of a technical malfunction in the hydroacoustics unit, estimates of fish density (e.g., number of fish per hectare using echo integration) were only possible for select months. A defect in the echosounder was detected, which affected hydroacoustic surveys conducted in April, May, and June 2015 and January and February 2016. Although the defect did not affect quantification of MVBS, it reduced the accuracy of post data processing TS estimates (the split beam DT-X was effectively operating as a single beam instrument). Additionally, target density was often too low to allow for accurate statistical estimates of TS. Taken together, these issues limited the use of the echo integration to estimate fish numbers. This malfunction, which resulted in a loss of split beam capacity, also blocked accurate determination of the calibration offset. Despite the inability to produce a complete time series dataset using fish density estimates (as opposed to using fish biomass estimates available from MVBS values), the available fish density data are shown in Figure 23. While potential patterns are hard to clearly decipher, there are similarities in portions of these data with those described in Section 3.3.1.1.1 using MVBS values.

Temporal and Spatial Distribution of Fish and Invertebrates
May 20, 2016



NOTES:
Dotted vertical lines indicate three distinct periods of fish density.
Error bars represent interquartile range.
X = did not fish.
S = Safety concerns; did not sample.
P = Plankton interfered with recording; data omitted.

Figure 23 Log-Transformed Fish Density per Hectare (ha)

3.3.2 Distribution and Relative Abundance of Focal Fish Species over Time

3.3.2.1 Fish and Invertebrate Species Observed

The Program used a variety of sampling techniques to identify and describe the fish and invertebrate species present in the survey region (Program objective 2). The full schedule of surveys by area is presented in Appendix A.

During the Program, 57 fish species and 8 invertebrate species were captured. Of these 65 species, 10 individual species, and a grouping of larval fish were focal species (as defined in Section 3.2.2.1 above, Table 3). Four groups of fish genera were identified in catches and included fish such as hybrid sole, sculpins, sanddab, and gadids (cod). Two fish groups were used to categorize an array of similar fish or life stages, including flatfish (flounder and sole) and fish larvae. There were 19 invertebrate groups identified to family, including taxa such as crab and invertebrate larvae, sea pen, sea stars, mysids, euphausiids, amphipods, isopods, and shrimp / prawn. The reported number of taxa caught should be considered a minimum, as despite the diversity of gear types used and habitats surveys, efforts were targeted towards focal species, and not designed as a comprehensive biodiversity survey.

The highest number of species and groupings was observed in catches during June and July 2015 (53 and 59 respectively; Table 3). The number of species and groupings were lower in May and August (42 and 40 respectively), and were approximately 40% less for all other months surveyed in the Program (< 26).

The 11 focal species were observed in May and June, when migratory salmon smolts were also present. Sockeye salmon were only observed in the survey region during May, June, and July. Dungeness crab, surf smelt, and starry flounder were observed in catches throughout the Program. Also, staghorn sculpin were observed in catches throughout the entire Program.

Table 3 Summary of All Fish Species Caught by Month in Survey Region December 2014 through February 2016 Listed In Order Including: Focal Species, Other Fish and Invertebrate Species, and Incidental Invertebrate Species

Species	Latin Name	14-Dec	15-Jan	15-Feb	15-Mar	15-Apr	15-May	15-Jun	15-Jul	15-Aug	15-Sep	15-Oct	15-Nov	15-Dec	16-Jan	16-Feb
Focal Species Captured in Fishing Gear																
Chinook Salmon	*Oncorhynchus tshawytscha*						✓	✓	✓	✓	✓		✓			✓
Chum Salmon	*Oncorhynchus keta*	✓		✓	✓	✓	✓	✓							✓	✓
Coho Salmon	*Oncorhynchus kisutch*						✓	✓	✓	✓	✓					
Dungeness Crab	*Metacarcinus magister*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
English Sole	*Parophrys vetelus*				✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
Fish Larvae	*Chordata spp.*		✓	✓			✓	✓	✓	✓						✓
Pacific Herring	*Clupea pallasi*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
Pink Salmon	*Oncorhynchus gorbuscha*	✓	✓	✓	✓	✓	✓	✓								✓
Sockeye Salmon	*Oncorhynchus nerka*						✓	✓	✓							
Starry Flounder	*Platichthys stellatus*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Surf Smelt	*Hypomesus pretiosus*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Other Fish and Invertebrate Species Captured in Fishing Gear (Not a Species of Management Concern)																
Bay Pipefish	*Syngnathus leptorhyncus*		✓		✓		✓	✓	✓	✓	✓					
Big Skate	*Raja binoculata*				✓		✓	✓	✓	✓						
Buffalo Sculpin	*Enophrys bison*						✓	✓	✓	✓	✓					✓
Cabezon	*Scorpaenichthys marmoratus*	✓		✓												

Table 3 Summary of All Fish Species Caught by Month in Survey Region December 2014 through February 2016 Listed In Order Including: Focal Species, Other Fish and Invertebrate Species, and Incidental Invertebrate Species

Species	Latin Name	14-Dec	15-Jan	15-Feb	15-Mar	15-Apr	15-May	15-Jun	15-Jul	15-Aug	15-Sep	15-Oct	15-Nov	15-Dec	16-Jan	16-Feb
Cockscomb Prickleback	*Anoplarchus purpurescens*										✓					
Coonstripe Shrimp	*Pandalus danae*			✓	✓	✓	✓		✓							
Crab Larvae	*Malacostraca spp.*						✓	✓	✓							
Crescent Gunnel	*Pholis laeta*		✓	✓	✓	✓	✓	✓	✓	✓	✓					
Dolly Varden	*Salvelinus malma*						✓	✓	✓	✓				✓		✓
Eulachon (larvae and juveniles)	*Thaleichthys pacificus*							✓	✓							
Flatfish spp.	*Pleuronectiformes spp.*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓
Gadid spp.	*Gadid spp.*							✓	✓							
Giant Wrymouth	*Delolepis gigantea*					✓										
Graceful Crab	*Metacarcinus gracilis*									✓						
Great Sculpin	*Myoxocephalus polyacanthocephalus*								✓	✓	✓					✓
Gunnel spp.	*Pholidae spp.*							✓								
Humpback Shrimp	*Pandalus hypsinotus*			✓	✓											
Hybrid Sole	*Soleidae spp.*							✓								
Invertebrate Larvae	*Decapoda spp.*							✓	✓							
Kelp Clingfish	*Rimicola muscarum*										✓					

Table 3 Summary of All Fish Species Caught by Month in Survey Region December 2014 through February 2016 Listed In Order Including: Focal Species, Other Fish and Invertebrate Species, and Incidental Invertebrate Species

Species	Latin Name	14-Dec	15-Jan	15-Feb	15-Mar	15-Apr	15-May	15-Jun	15-Jul	15-Aug	15-Sep	15-Oct	15-Nov	15-Dec	16-Jan	16-Feb
Kelp Greenling	*Hexagrammos decagrammus*							✓								
Lingcod	*Ophiodon elongatus*								✓							
Longfin Smelt	*Spirinchus thaleichthys*							✓		✓			✓			✓
Lump Sucker	*Cyclopteridae spp.*						✓									
Northern Spearnose Poacher	*Agonopsis vulsa*								✓						✓	
Pacific Cod	*Gadus macrocephalus*						✓	✓	✓							
Pacific Lamprey	*Lampetra tridentatus*						✓	✓	✓	✓						
Pacific Sanddab	*Citharichthys sordidus*								✓	✓						
Pacific Sandfish	*Trichodon trichodon*			✓	✓		✓	✓	✓	✓	✓					
Pacific Sandlance	*Ammodytes hexapterus*						✓	✓	✓	✓	✓					
Pacific Snake Prickleback	*Lumpenus sagitta*	✓	✓			✓	✓	✓	✓	✓	✓		✓			
Pacific Staghorn Sculpin	*Leptocottus armatus*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pacific Tomcod	*Microgadus proximus*			✓			✓	✓	✓	✓	✓		✓			
Penpoint Gunnel	*Apodichthys flavidus*									✓	✓					
Poacher spp.	*Agonidae spp.*						✓									
Prawn/Shrimp spp.	*Decapoda spp.*							✓	✓		✓					

Table 3 Summary of All Fish Species Caught by Month in Survey Region December 2014 through February 2016 Listed In Order Including: Focal Species, Other Fish and Invertebrate Species, and Incidental Invertebrate Species

Species	Latin Name	14-Dec	15-Jan	15-Feb	15-Mar	15-Apr	15-May	15-Jun	15-Jul	15-Aug	15-Sep	15-Oct	15-Nov	15-Dec	16-Jan	16-Feb
Prowfish	*Zaprora silenus*								✓							
Quillfish	*Ptilichthys goodei*								✓							
Red Irish Lord	*Hemilepidotus hemilepidoyus*	✓								✓						
Rock Greenling	*Hexagrammos lagocephalus*					✓	✓									
Rock Sole	*Lepidopsetta bilineata*							✓	✓	✓	✓		✓			✓
Sand Sole	*Psettichthys melanostictus*					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sanddab spp.	*Citharichthys spp.*								✓							
Sculpin spp.	*Cottoidea spp.*	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓
Shiner Perch	*Cymatogaster aggregata*	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
Shrimp (Crangon spp.)	*Crangon spp.*	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓
Sidestripe Shrimp	*Pandalopsis dispar*					✓			✓							
Slender Sole	*Lyopsetta exilis*								✓							
Slimy Sculpin	*Cottus cognatus*						✓									
Soft Sculpin	*Psychrolutes sigalutes*						✓	✓								
Speckled Sanddab	*Citharichthys stigmaeus*									✓						
Spotted Snailfish	*Liparis callyodon*				✓					✓						

Table 3 Summary of All Fish Species Caught by Month in Survey Region December 2014 through February 2016 Listed In Order Including: Focal Species, Other Fish and Invertebrate Species, and Incidental Invertebrate Species

Species	Latin Name	14-Dec	15-Jan	15-Feb	15-Mar	15-Apr	15-May	15-Jun	15-Jul	15-Aug	15-Sep	15-Oct	15-Nov	15-Dec	16-Jan	16-Feb
Steelhead	*Oncorhynchus mykiss*							✓								
Striped Surf Perch	*Embiotoca lateralis*							✓	✓							
Sturgeon Poacher	*Podothecus accipenserinus*							✓								
Threespine Stickleback	*Gasterosteus aculeatus*					✓		✓	✓	✓	✓	✓	✓		✓	✓
Tidepool Sculpin	*Oligocottus maculatus*								✓	✓	✓					✓
Tubesnout	*Aulorhynchus flavidus*	✓	✓	✓	✓	✓	✓		✓	✓						✓
Walleye Pollock	*Gadus chalcogrammus*						✓	✓	✓							
Whitespotted Greenling	*Hexagrammos stelleri*						✓		✓	✓						
Yellowfin Flounder	*Pleuronectes ferruginea*	✓	✓				✓									
Less Mobile Invertebrate Species Incidentally Captured in Fishing Gear																
Amphipod spp.	*Amphipoda* spp.								✓					✓		
Brittle Star	*Ophiuroidea* spp.								✓							
Decorator Crab	*Majidae* spp.	✓		✓	✓	✓	✓	✓	✓							
Hermit Crab spp.	*Pagurus* spp.			✓				✓	✓							
Isopod spp.	*Idotea* spp.						✓	✓	✓							
Jelly spp. (Translucent)	*Medusozoa* spp.					✓	✓	✓		✓			✓			✓
Krill spp.	*Euphausiacea* spp.													✓	✓	✓

Table 3 Summary of All Fish Species Caught by Month in Survey Region December 2014 through February 2016 Listed In Order Including: Focal Species, Other Fish and Invertebrate Species, and Incidental Invertebrate Species

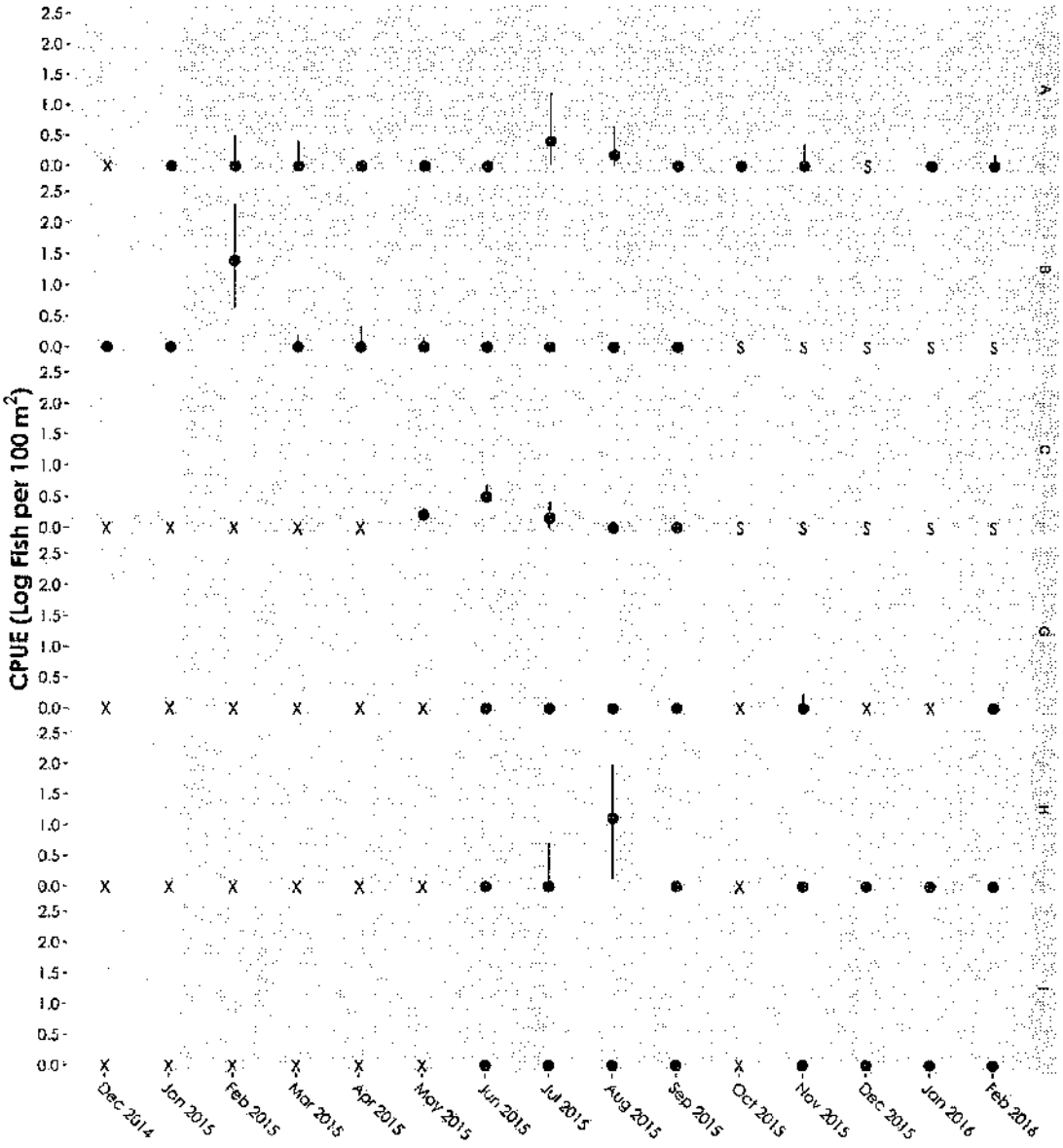
Species	Latin Name	14-Dec	15-Jan	15-Feb	15-Mar	15-Apr	15-May	15-Jun	15-Jul	15-Aug	15-Sep	15-Oct	15-Nov	15-Dec	16-Jan	16-Feb
Lion's Mane Jelly	*Cyanea capillata*								✓							
Mysida spp.	*Mysida spp.*							✓						✓		
Nereid Worm spp.	*Nereidae spp.*							✓	✓							
Nudibranch spp.	*Nudibranchia spp.*								✓							
Polychaete Worm spp.	*Polychaeta spp.*							✓								
Prawn/Shrimp spp.	*Decapoda spp.*							✓	✓		✓					
Sea Louse	*Caligidae spp.*									✓						✓
Sea Pen	*Pennatulacea spp.*								✓							
Sea Star spp.	*Asteroidea spp.*			✓												
Stubby Squid	*Rossia pacifica*							✓	✓	✓	✓					
Tanner Crab	*Chionoecetes bairdi*		✓													
Unidentified Parasite	*n/a*															✓

3.3.2.2 Focal Species Distribution and Relative Abundance

Data used to estimate CPUE for focal fish species were derived from beach seine and trawl (2 x 2 m tucker trawl) catches and for Dungeness crab from trap catches. Daytime and nighttime survey data are presented separately on each figure (where applicable).

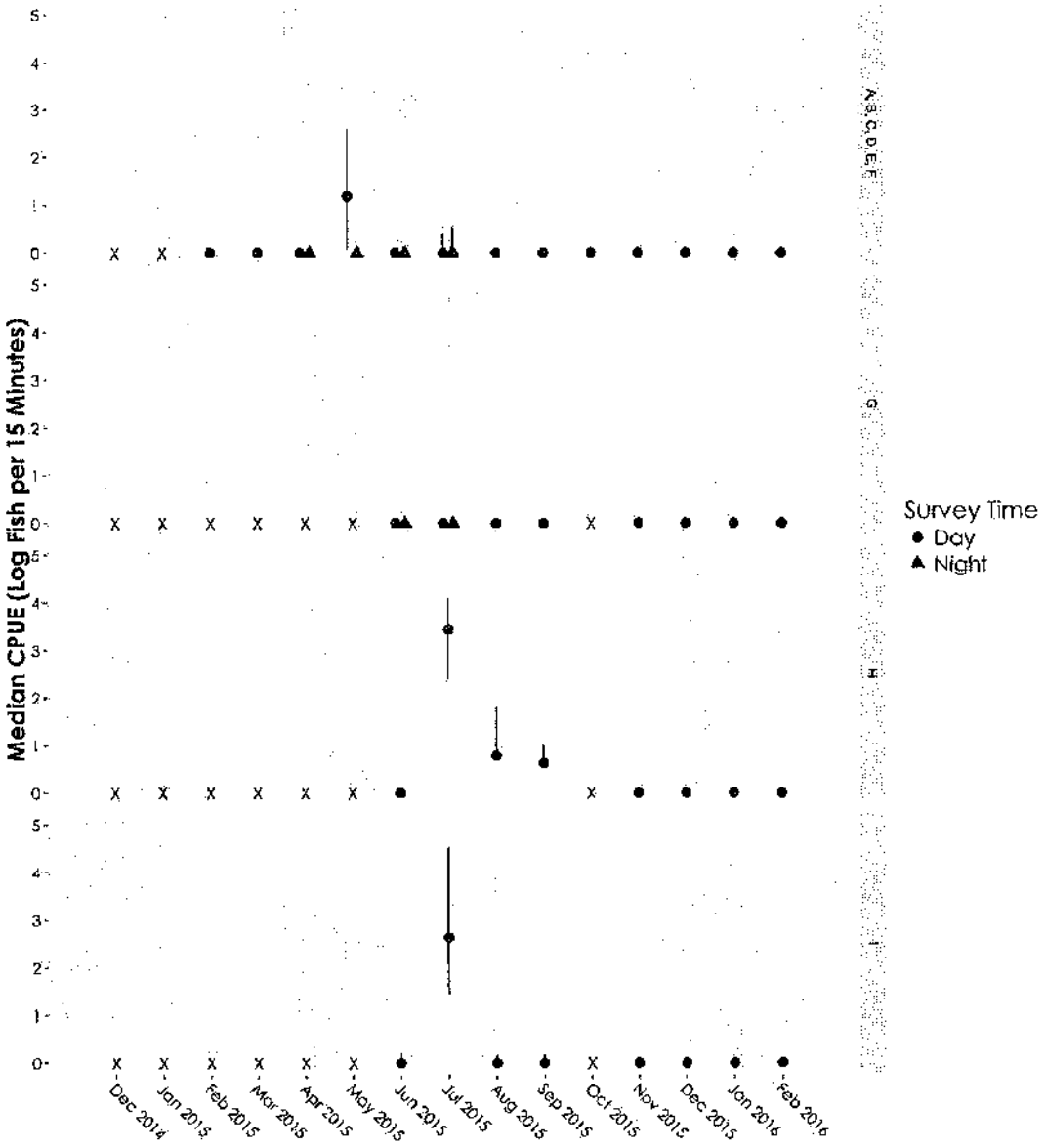
3.3.2.2.1 Pacific Herring

Beach seine data for Pacific herring showed generally low CPUE (median catch was typically fewer than three fish per 100 m^2, Appendix B, Section B.2), with greater numbers of fish captured during summer in survey areas A, C, and H. Survey area B showed higher CPUE (about three fish per 100 m^2, Appendix B, Section B.2) in February (Figure 24). Trawl catch data for Pacific herring varied, with the highest CPUE recorded in May (median catch of 3.4 fish per 15 minutes of trawl, Appendix B, Section B.2) for the general survey areas (inclusive; see Figure 25 panel "A, B, C, D, E, F,"), and in July for survey areas H and I (up to 30 fish per 15 minutes of trawl, Appendix B, Section B.2). No discernible differences in herring catch data were observed between night and daytime trawl surveys.



NOTES:
X = did not fish
S = Safety concerns; did not fish

Figure 24 Median Catch Per Unit Area and Interquartile Range of Pacific Herring in Beach Seine Catches

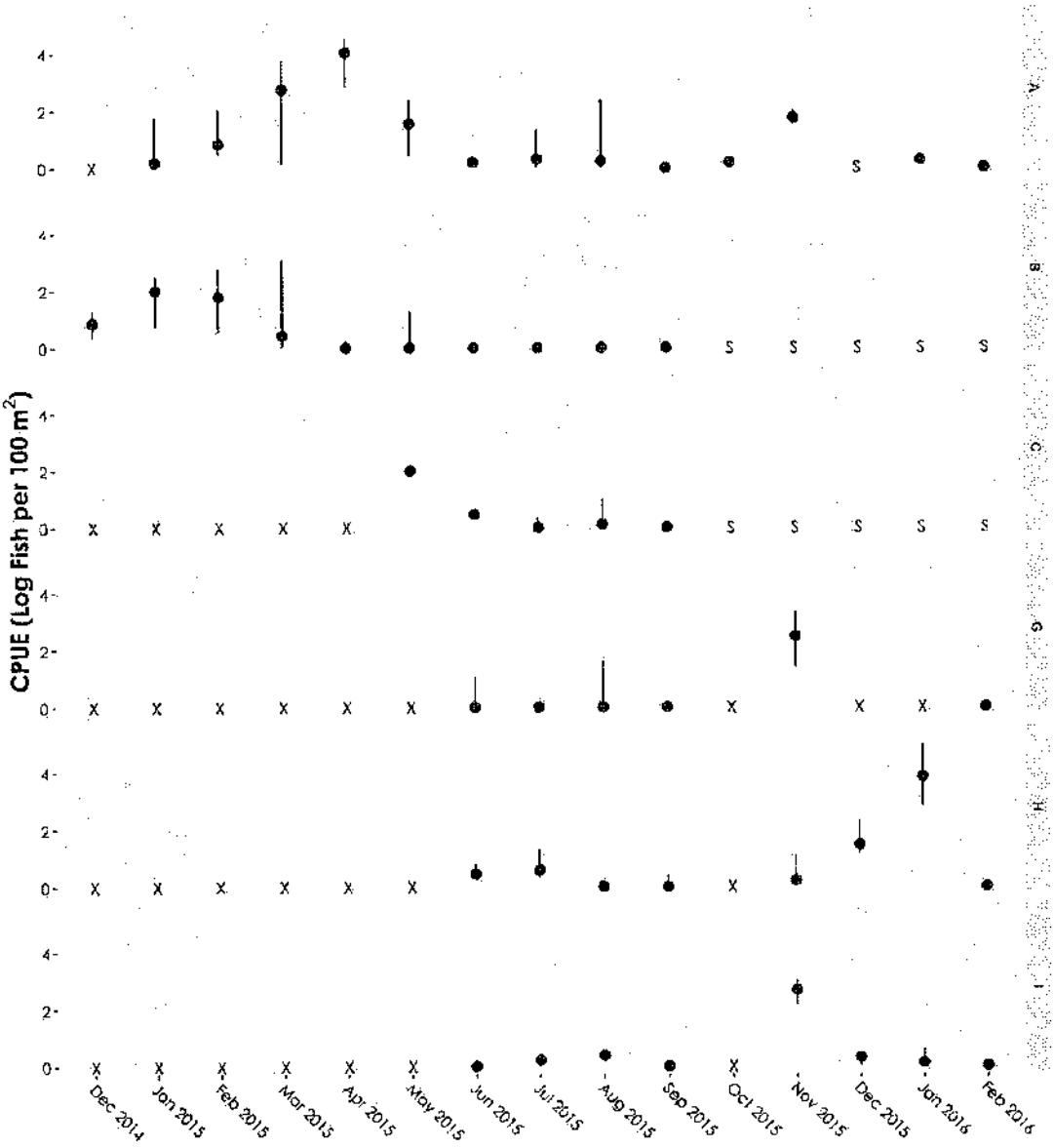


NOTE:
X = did not fish

Figure 25 Median Catch Per Unit Effort and Interquartile Range of Pacific Herring in Trawl Catches

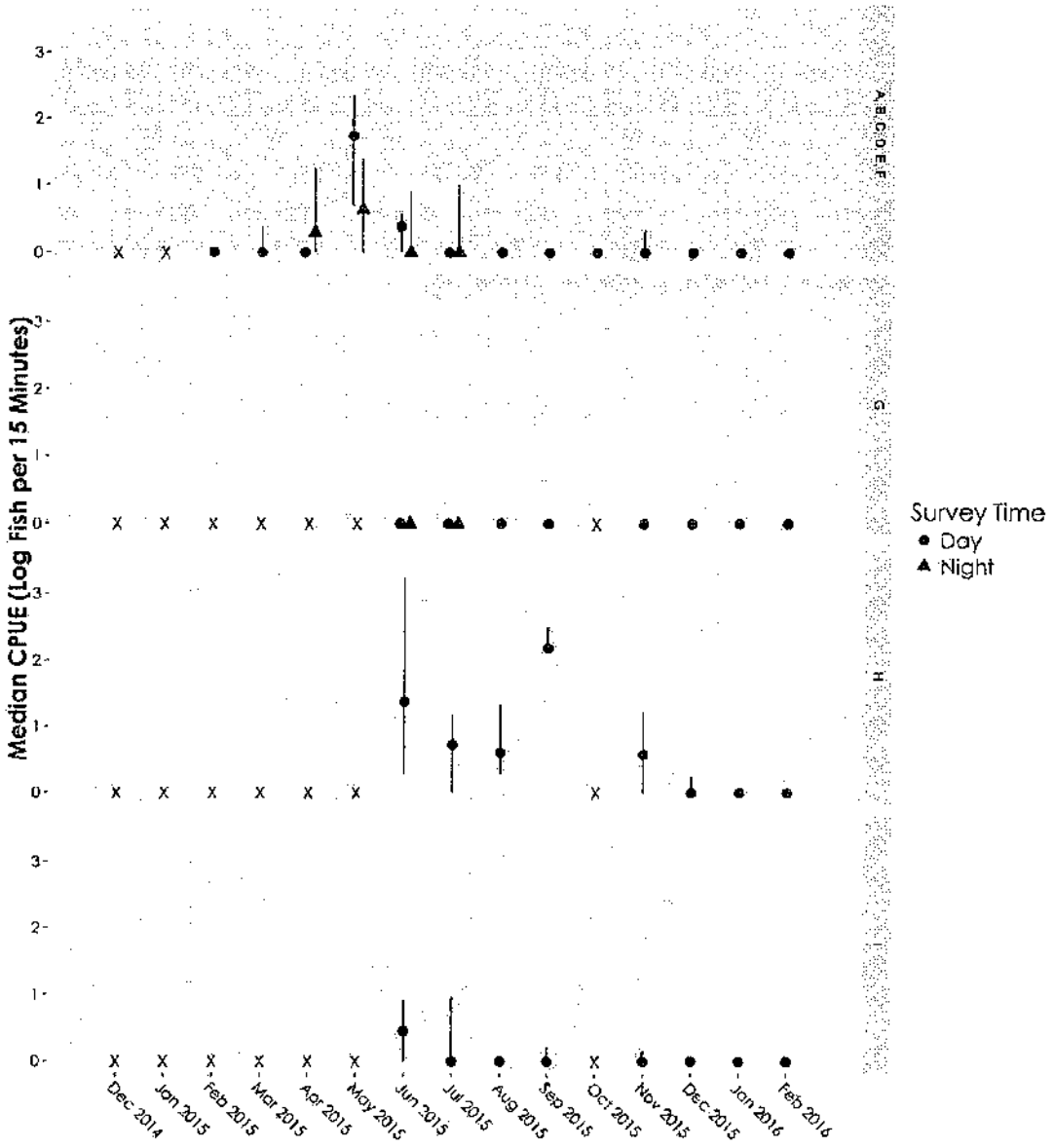
3.3.2.2.2 Surf Smelt

Median CPUE of surf smelt in beach seines were generally highest in winter months (November to April, when measured, i.e., survey areas A, B, G, H, and I, Figure 26). Surf smelt were rarely caught in beach seines during the summer (Appendix B, Section B.2). Trawl CPUE for surf smelt increased during spring and summer months (e.g., Figure 27 panel "A, B, C, D, E, F" and survey area H), with a maximum median catch of 4.7 fish per 15 minutes of trawl (Appendix B, Section B.2). No surf smelt were caught in survey area G and they were only recorded in survey area I in June (those areas were not surveyed from December 2014 through May 2015). No marked differences in surf smelt catch were observed between night and daytime trawl surveys (Figure 27).



NOTE:
X = did not fish
S = Safety concerns; did not fish

Figure 26 Median Catch Per Unit Effort and Interquartile Range of Surf Smelt in Beach Seine Catches

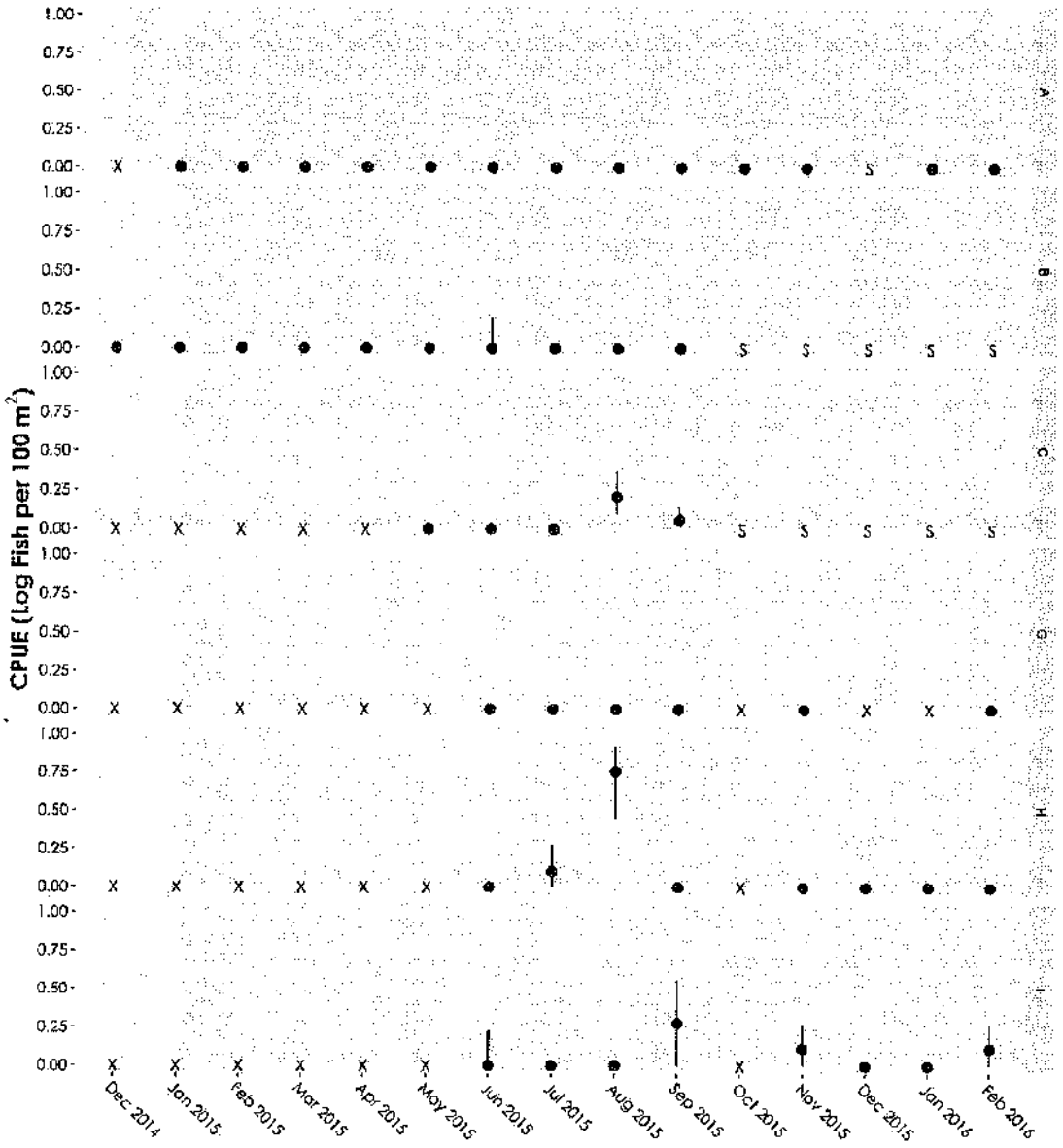


NOTE:
X = did not fish

Figure 27 Median Catch Per Unit Effort and Interquartile Range of Surf Smelt in Trawl Catches

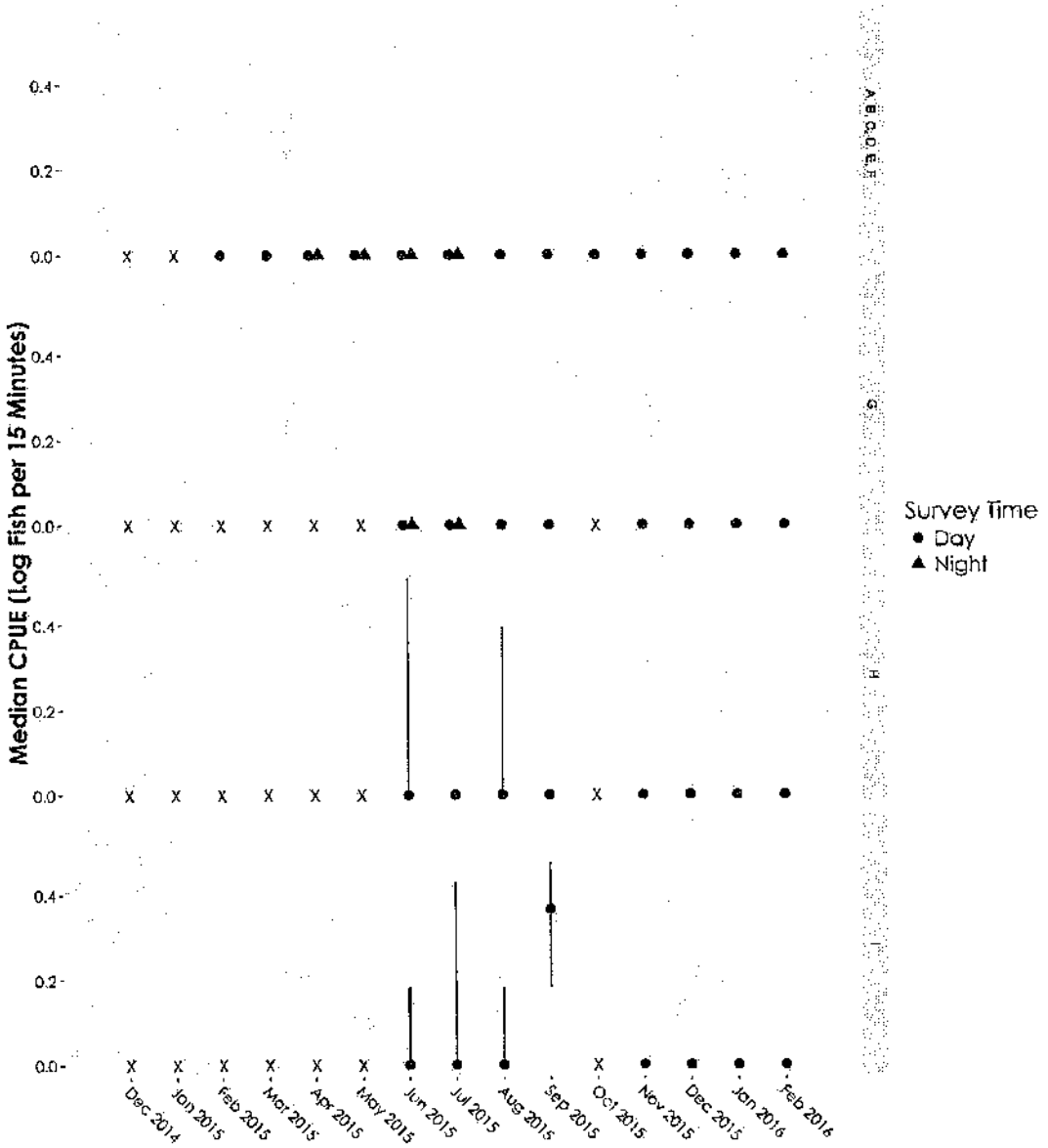
3.3.2.2.3 Chinook Salmon

Chinook salmon beach seine catch data showed low CPUE throughout all survey areas (zero median catch in most months), with a maximum median catch in survey area H in August (1.1 fish per 100 m^2, Appendix B, Section B.2). Chinook were recorded in beach seine catches in June through September, and again in November 2015 and February 2016 (Figure 28). Chinook trawl catch increased in September in survey area I (Figure 29), however median catch was fewer than one fish per 15 minutes of trawl (Appendix B, Section B.2). No other patterns were observed within the trawl catch data for Chinook salmon (Figure 29).



NOTE:
X = did not fish
S = Safety concerns; did not fish

Figure 28 Median Catch Per Unit Effort and Interquartile Range of Chinook Salmon in Beach Seine Catches

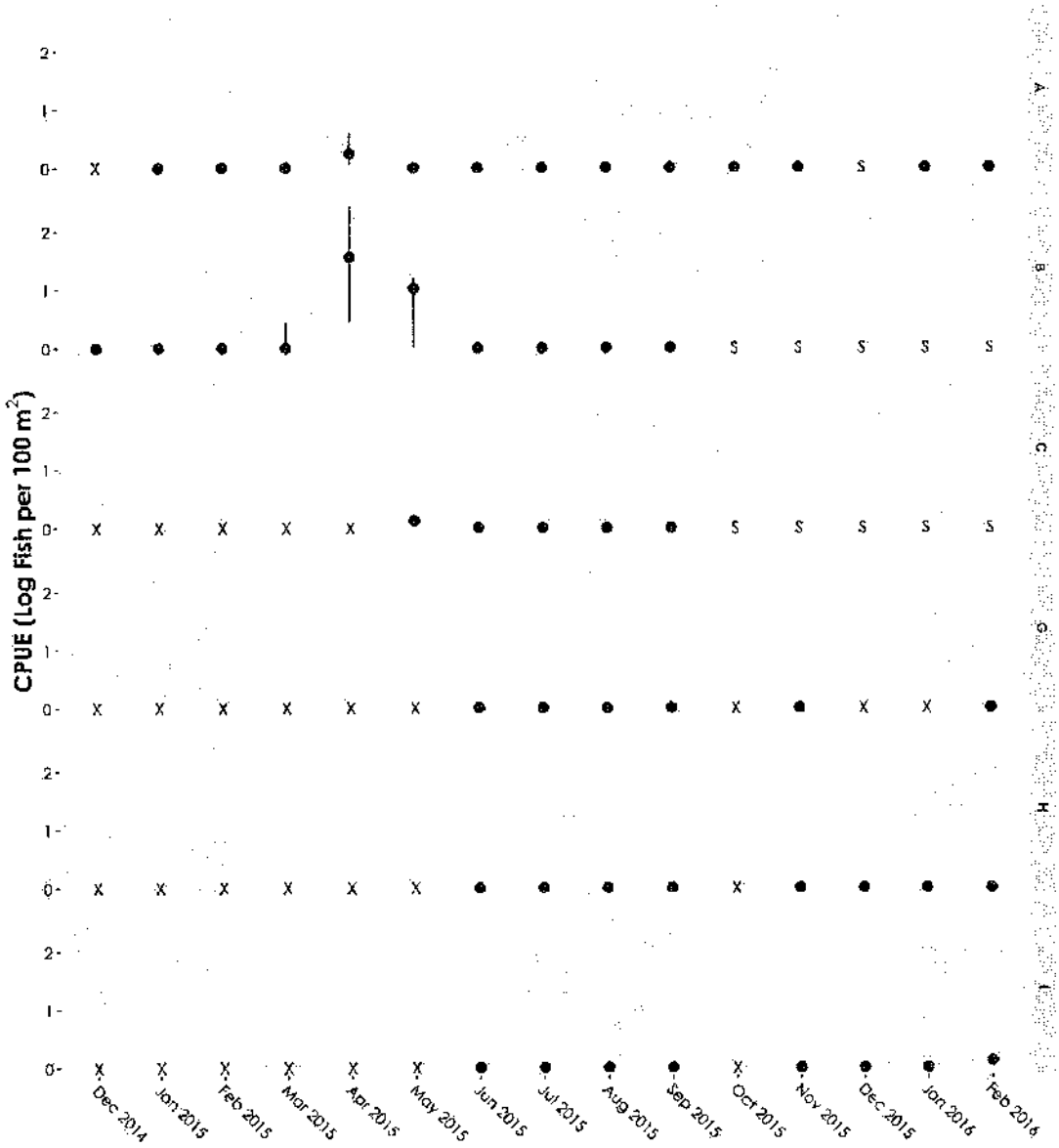


NOTE:
X = did not fish

Figure 29 **Median Catch Per Unit Effort and Interquartile Range of Chinook Salmon in Trawl Catches**

3.3.2.2.4 Chum Salmon

CPUE of chum salmon was low (maximum median catch was fewer than four fish per 100 m^2, Appendix B, Section B.2) in beach seines across survey areas A through I. Survey area B had increased CPUE in April and May (Figure 30). Chum salmon were captured in night trawls in May and June (in area "A, B, C, D, E, F") but median and interquartile range were zero for both months, making graphical presentation unnecessary (Appendix B, Section B.2).

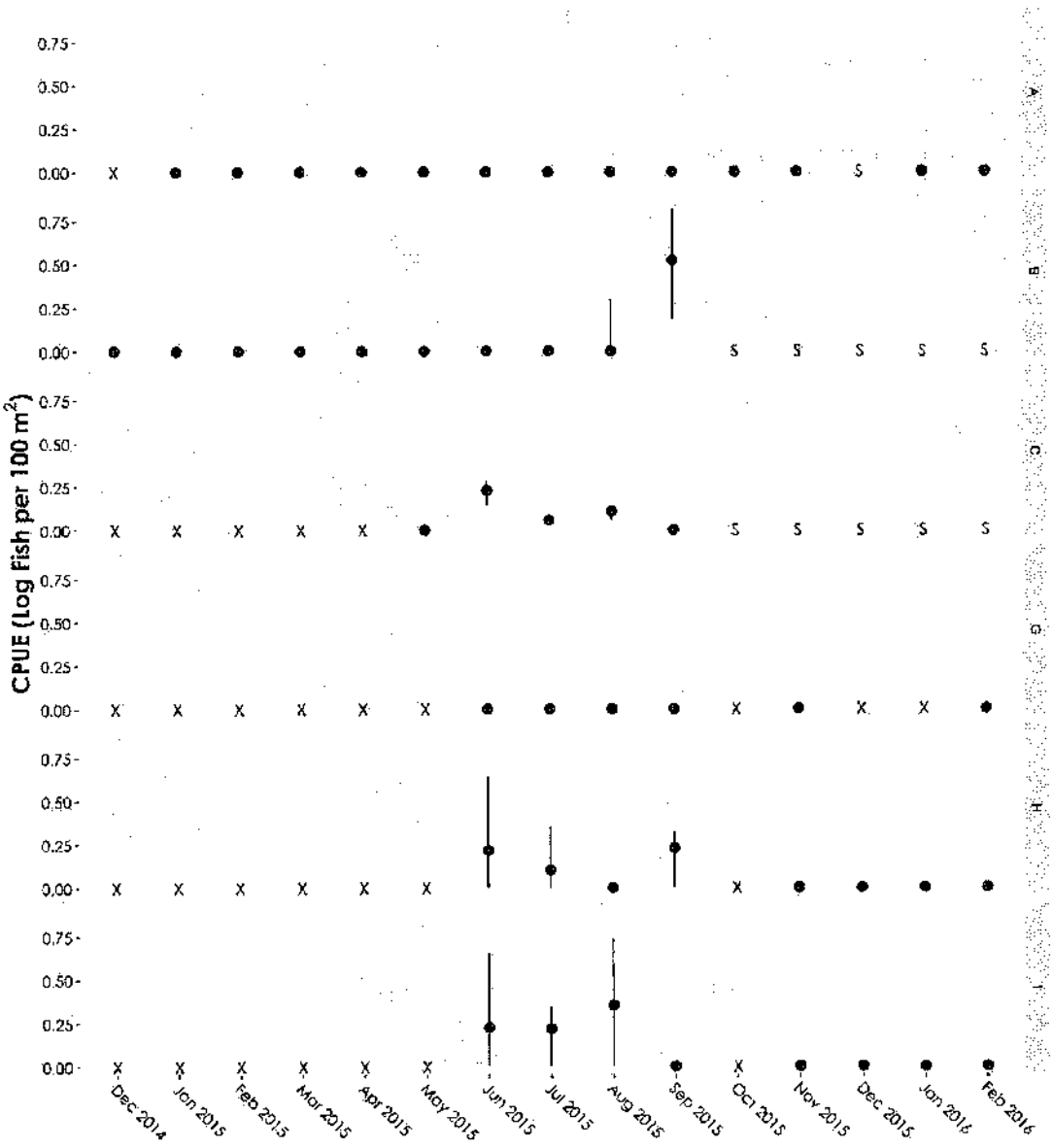


NOTE:
X = did not fish
S = Safety concerns; did not fish

Figure 30 Median Catch Per Unit Effort and Interquartile Range of Chum Salmon in Beach Seine Catches

3.3.2.2.5 Coho Salmon

Beach seine catches of coho salmon increased in September in survey area B (median catch of 0.8 fish per 100 m^2, Appendix B, Section B.2), while survey areas C, H and I showed higher catches between June and September (Figure 31), relative to the other areas and times sampled. Median trawl catch of coho salmon low, except for in survey area I in June (Figure 32, Appendix B, Section B.2).



NOTE:
X = did not fish
S = safety concerns; did not fish

Figure 31 Median Catch Per Unit Effort and Interquartile Range of Coho Salmon in Beach Seine Catches

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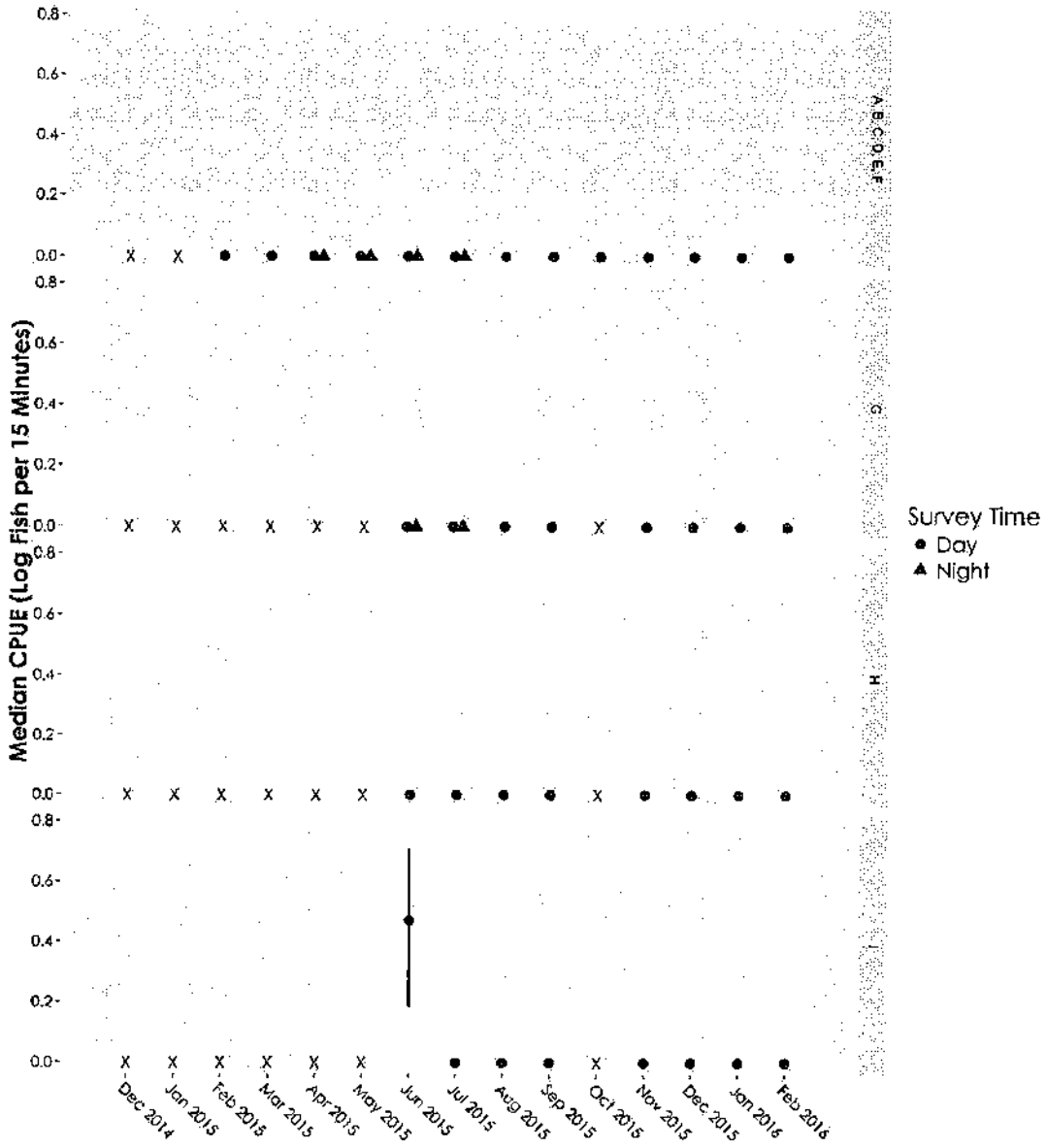
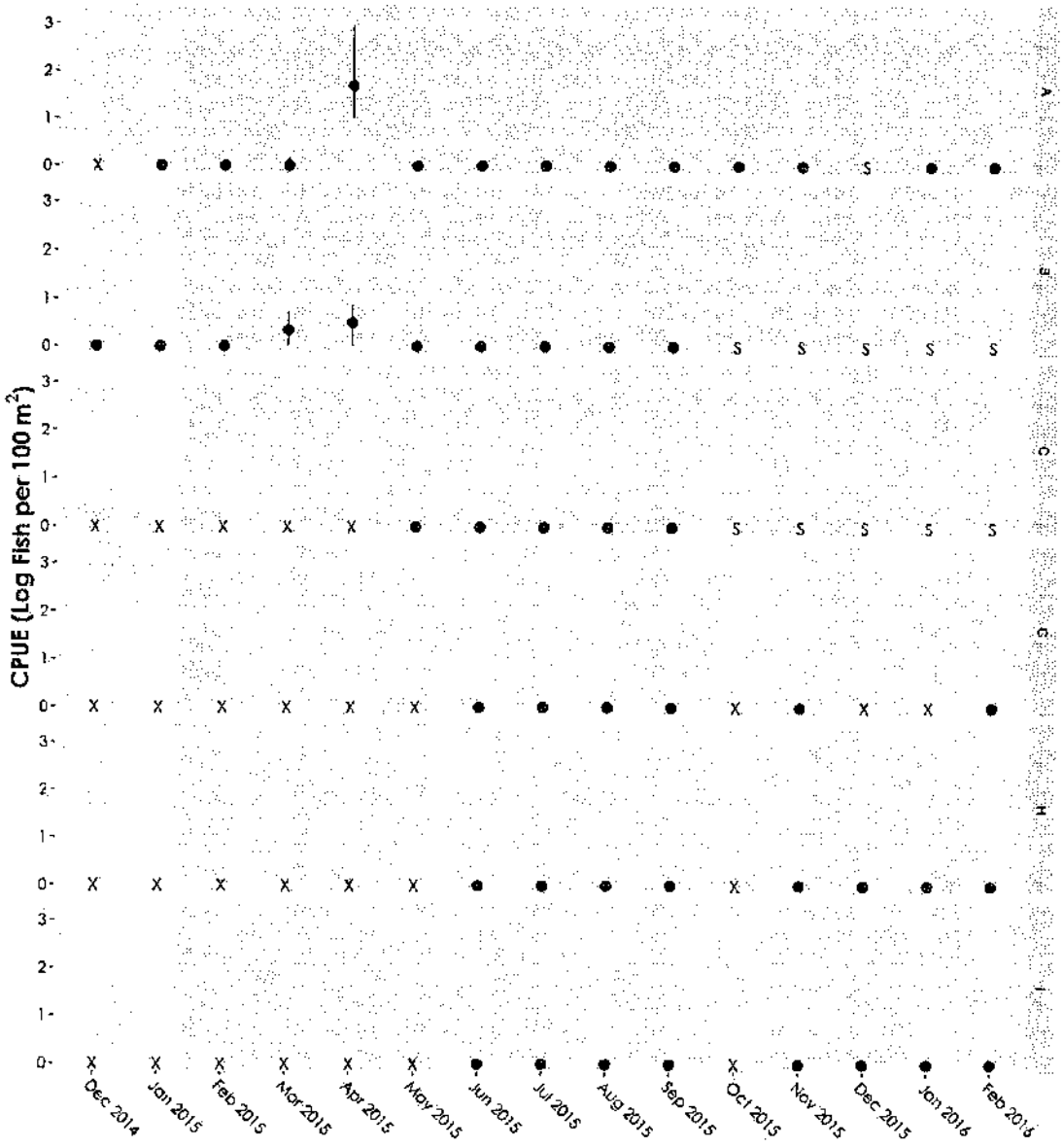


NOTE:
X = did not fish

Figure 32 Median Catch Per Unit Effort and Interquartile Range of Coho Salmon in Trawl Catches

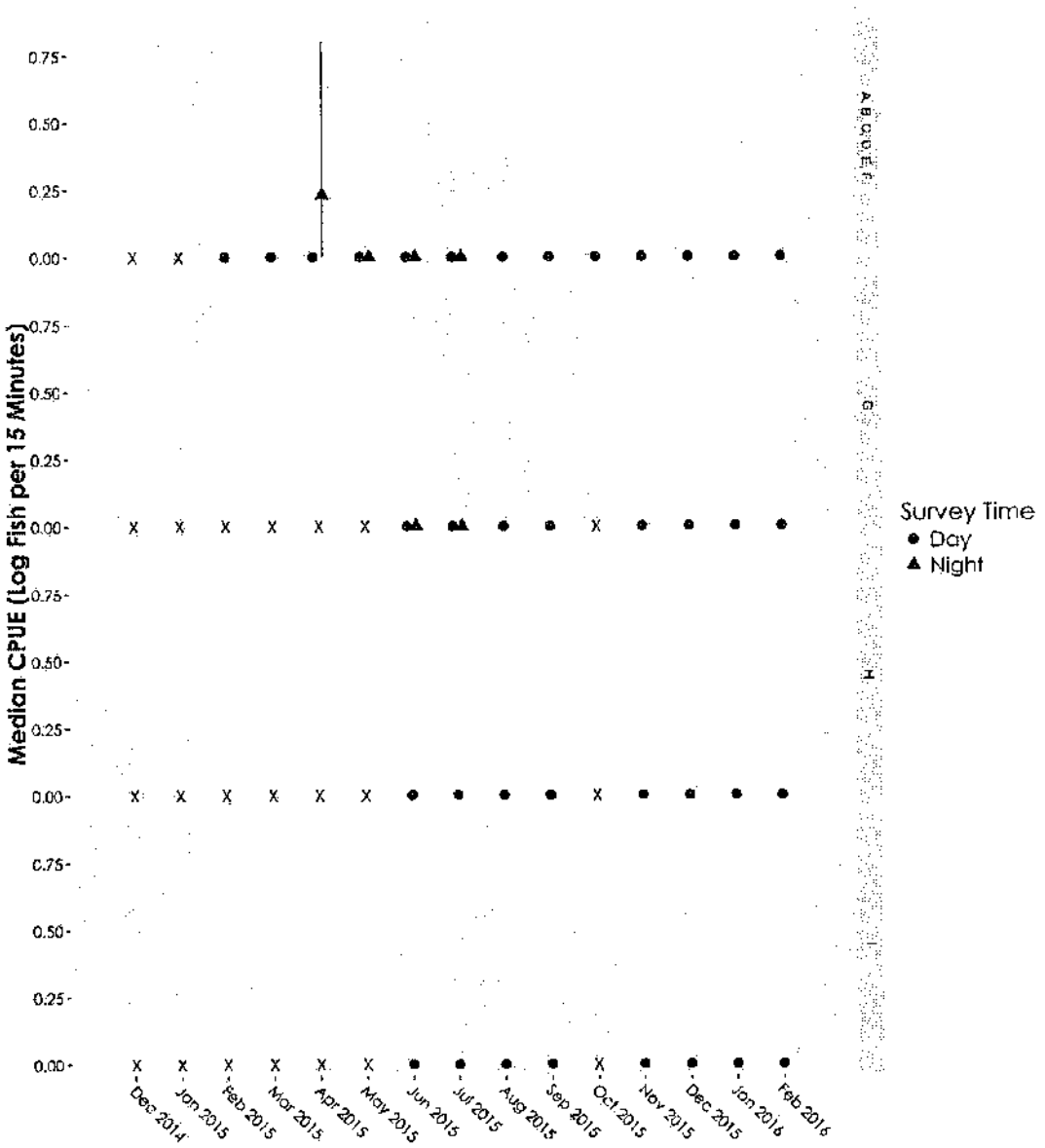
3.3.2.2.6 Pink Salmon

CPUE of pink salmon in beach seine catches was generally low but higher catches were recorded in survey area A in April 2015 (Figure 33, median CPUE 4.9 fish per 100 m^2, Appendix B, Section B.2). CPUE of pink salmon in trawl catches was also relatively low, with the exception of some night time catches in April (in survey area "A, B, C, D, E, F", Figure 34, Appendix B, Section B.2).



NOTE:
X = did not fish
S = Safety concerns; did not fish

Figure 33 Median Catch Per Unit Effort and Interquartile Range of Pink Salmon in Beach Seine Catches

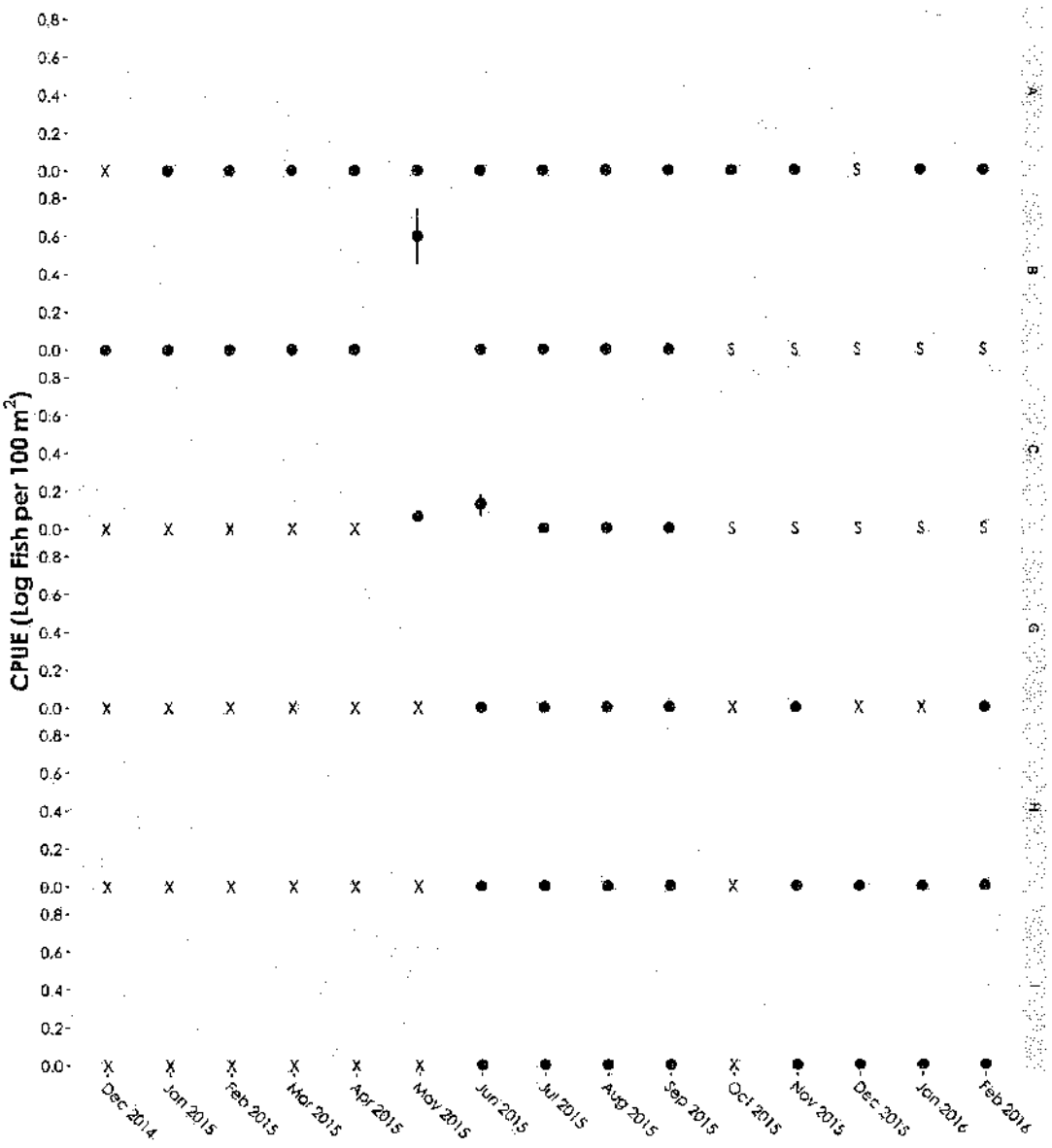


NOTE:
X = did not fish

Figure 34 **Median Catch Per Unit Effort and Interquartile Range of Pink Salmon in Trawl Catches**

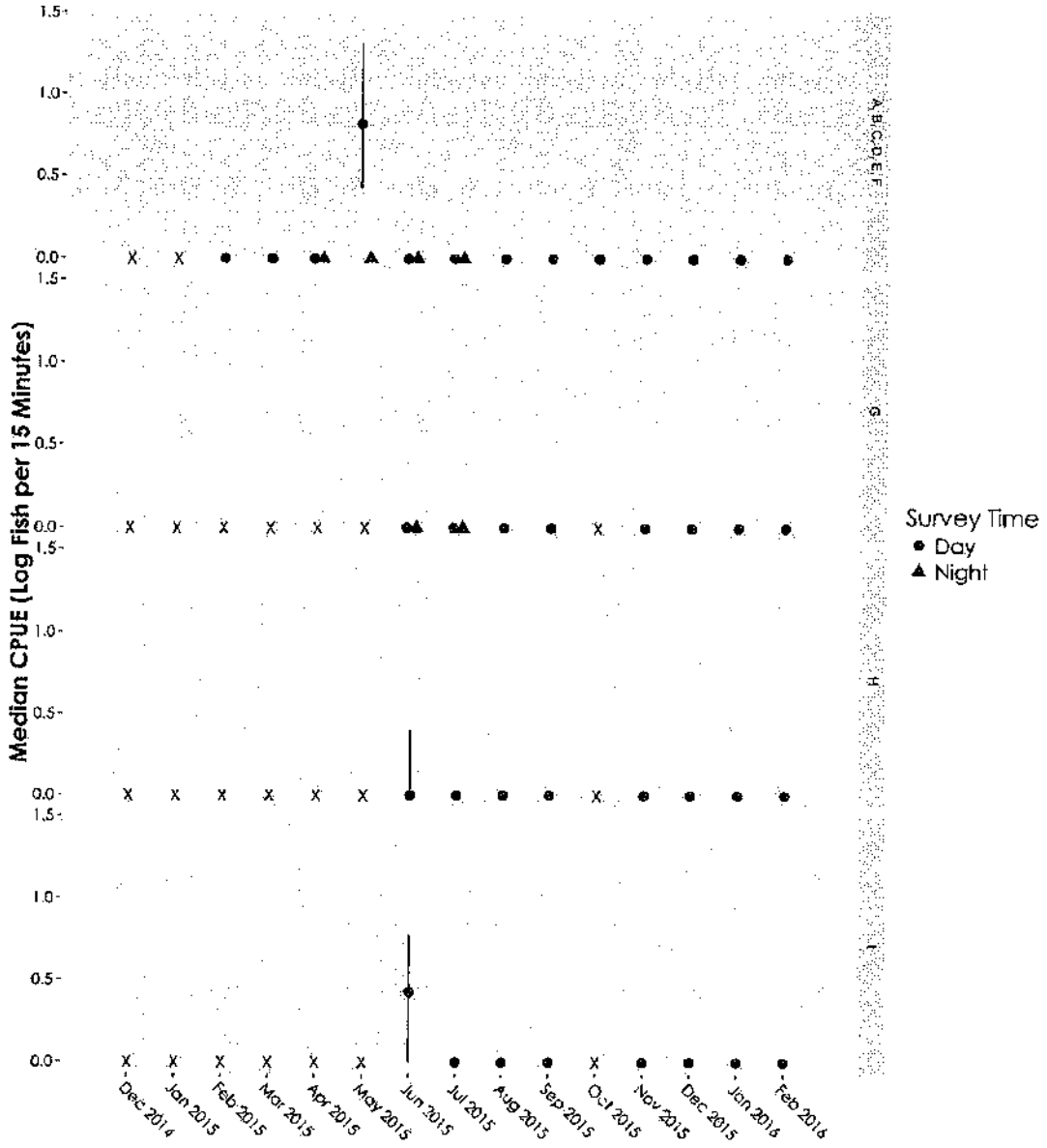
3.3.2.2.7 Sockeye Salmon

Sockeye salmon were predominantly caught in beach seines in May (survey area B) and June (survey area C) (Figure 35). Similarly, sockeye salmon were most abundant in trawl catches in May and June within survey areas A through F and in June within survey area I, although monthly median catches were typically less than two fish per 15 minutes of trawl, Appendix B, Section B.2, Figure 36).



NOTE:
X = did not fish
S = safety concerns; did not fish

Figure 35 Median Catch Per Unit Effort and Interquartile Range of Sockeye Salmon in Beach Seine Catches

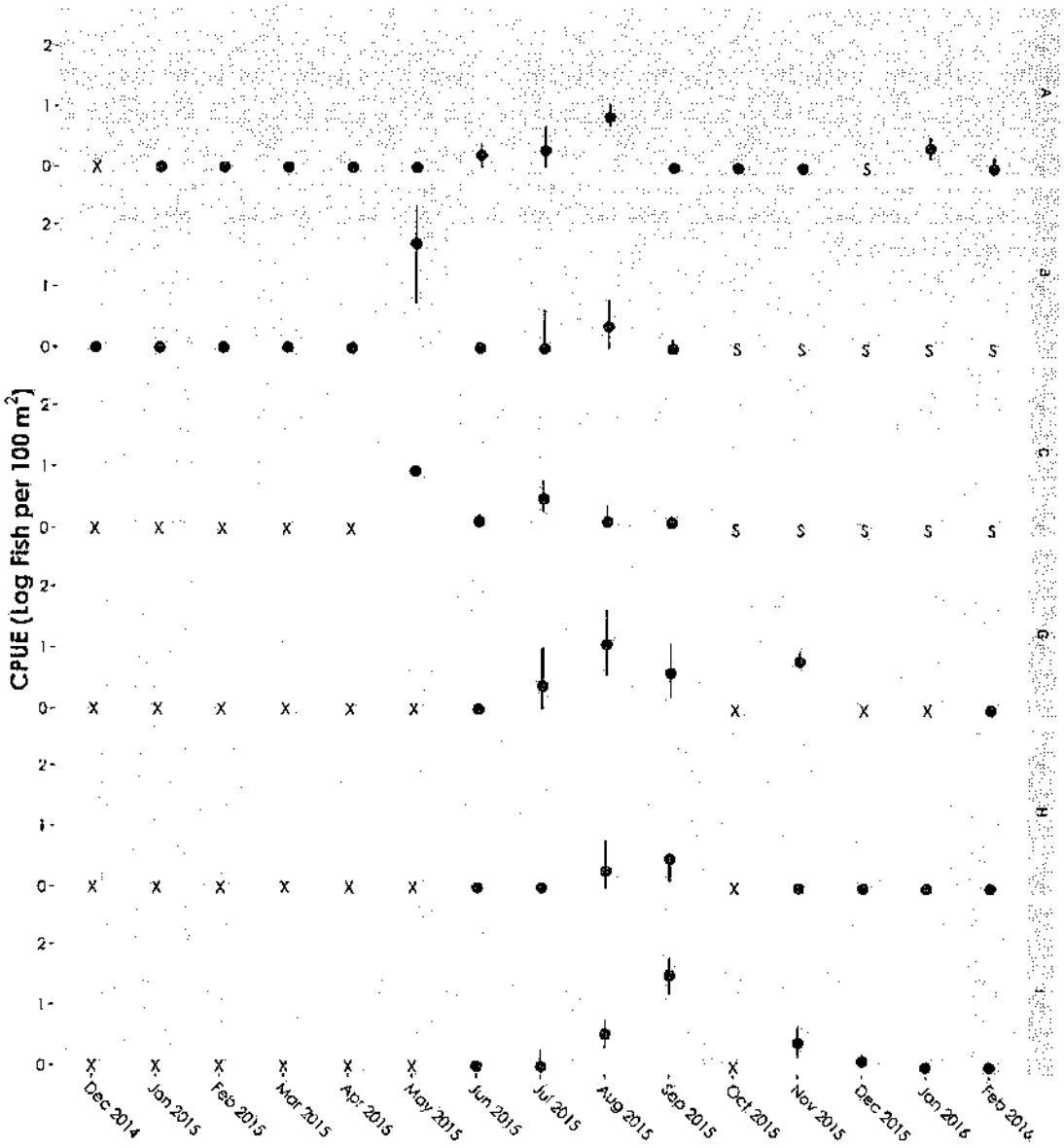


NOTE:
X = did not fish

Figure 36 Median Catch Per Unit Effort and Interquartile Range of Sockeye Salmon in Trawl Catches

3.3.2.2.8 English Sole

Median English sole beach seine catches generally increased July through September, with high numbers also observed in survey area B in May and survey areas G and I in November (Figure 37, Appendix B, Section B.2).English sole were only incidentally captured during trawls. Median and interquartile range of trawl CPUE in all months, across all areas, was zero (Appendix B, Section B.2).

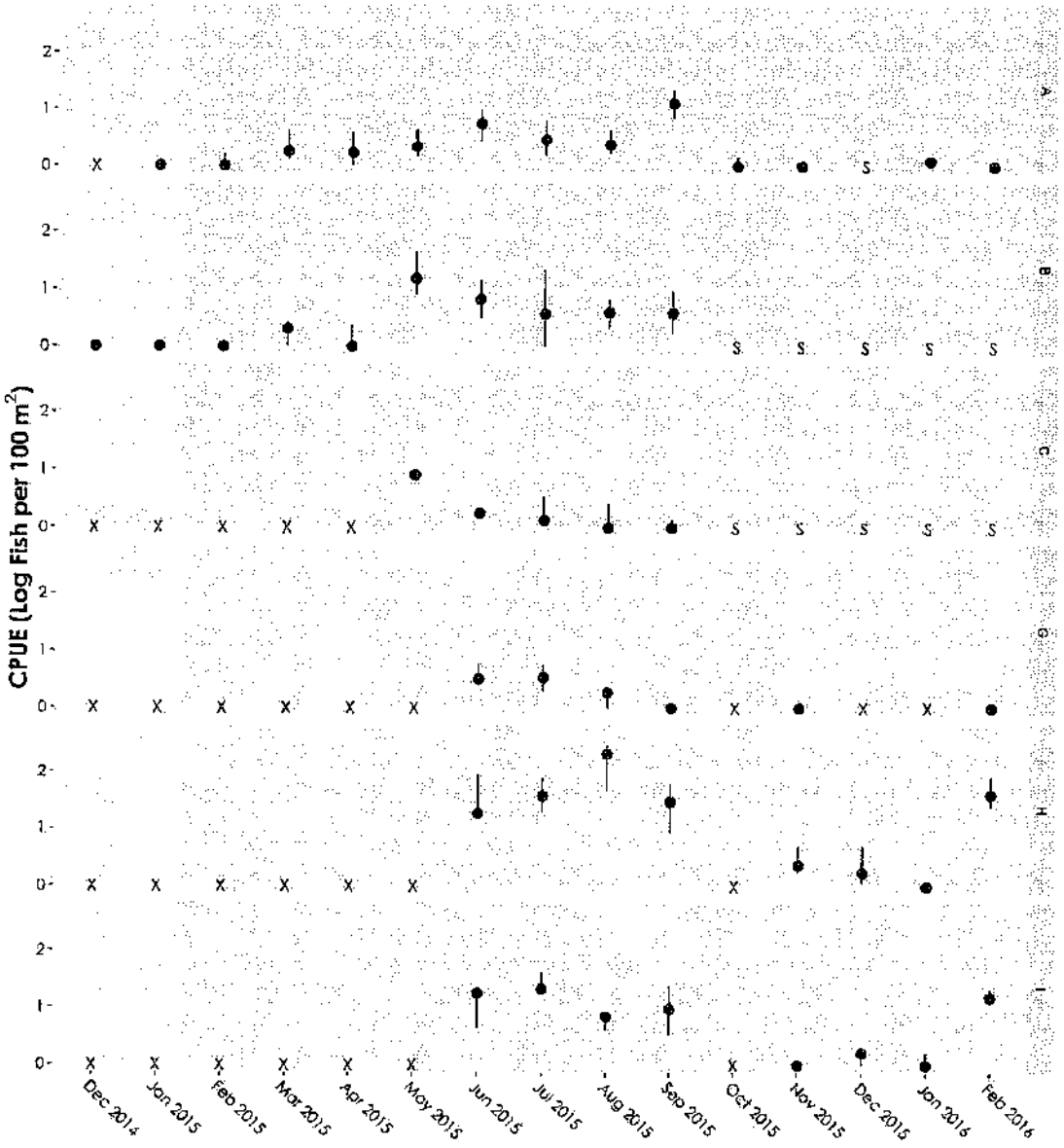


NOTE:
X = did not fish
S = Safety concerns; did not fish

Figure 37 Median Catch Per Unit Effort and Interquartile Range of English Sole in Beach Seine Catches

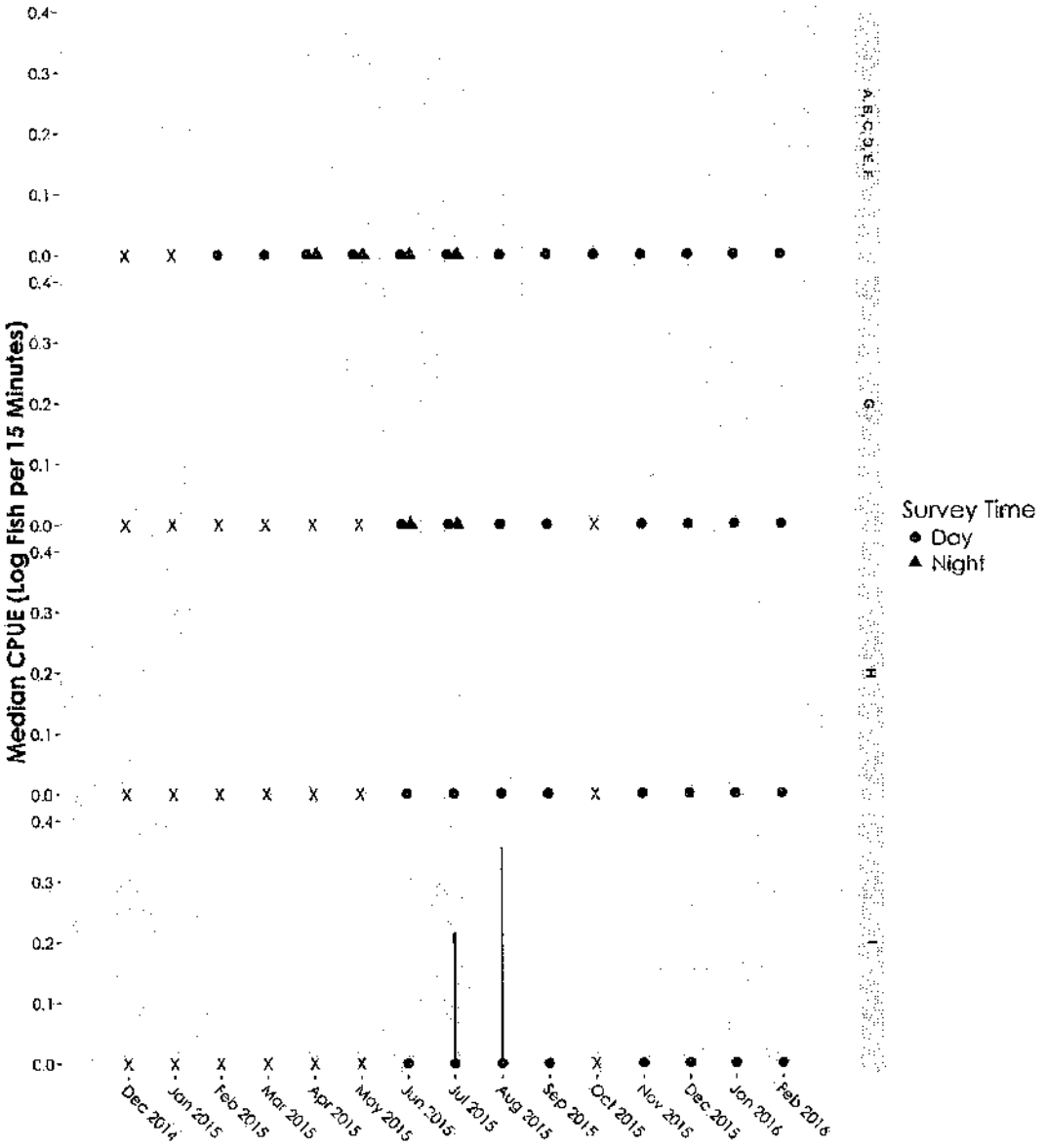
3.3.2.2.9 Starry Flounder

Starry flounder were consistently caught throughout the survey period and in most survey areas (median catch up to 9.2 fish per 100 m^2, Appendix B, Section B.2) (Figure 38). The highest relative starry flounder CPUE was observed in survey area H in the summer months, with another peak in February. Catch also increased during summer and fall months for most survey areas. Starry flounder were incidentally caught in trawl catches from May through August (Figure 39, Appendix B, Section B.2).



NOTE:
X = did not fish
S = Safety concerns; did not fish

Figure 38 Median Catch Per Unit Effort and Interquartile Range of Starry Flounder in Beach Seine Catches

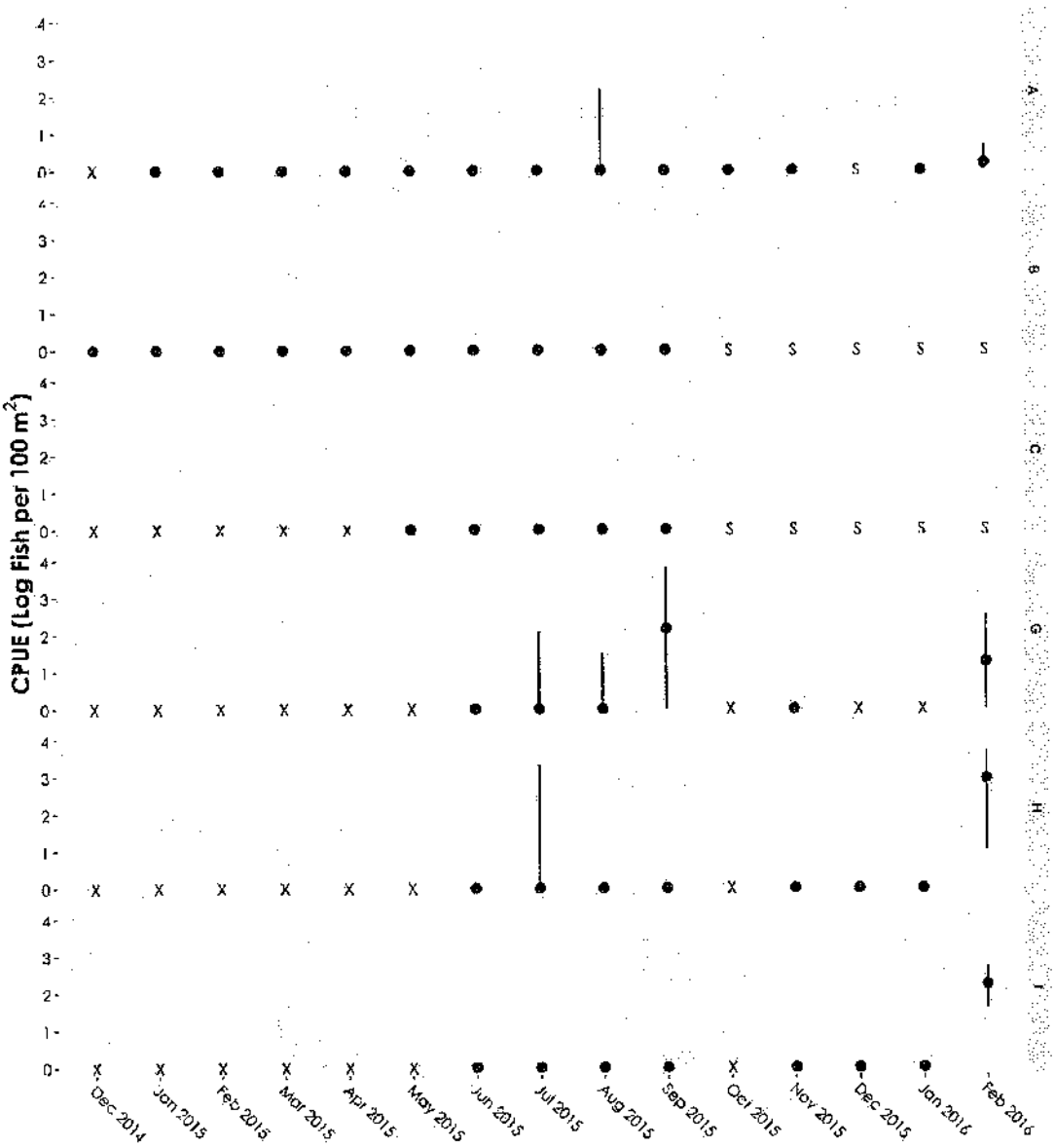


NOTE:
X = did not fish

Figure 39 Median Catch Per Unit Effort and Interquartile Range of Starry Flounder in Trawl Catches

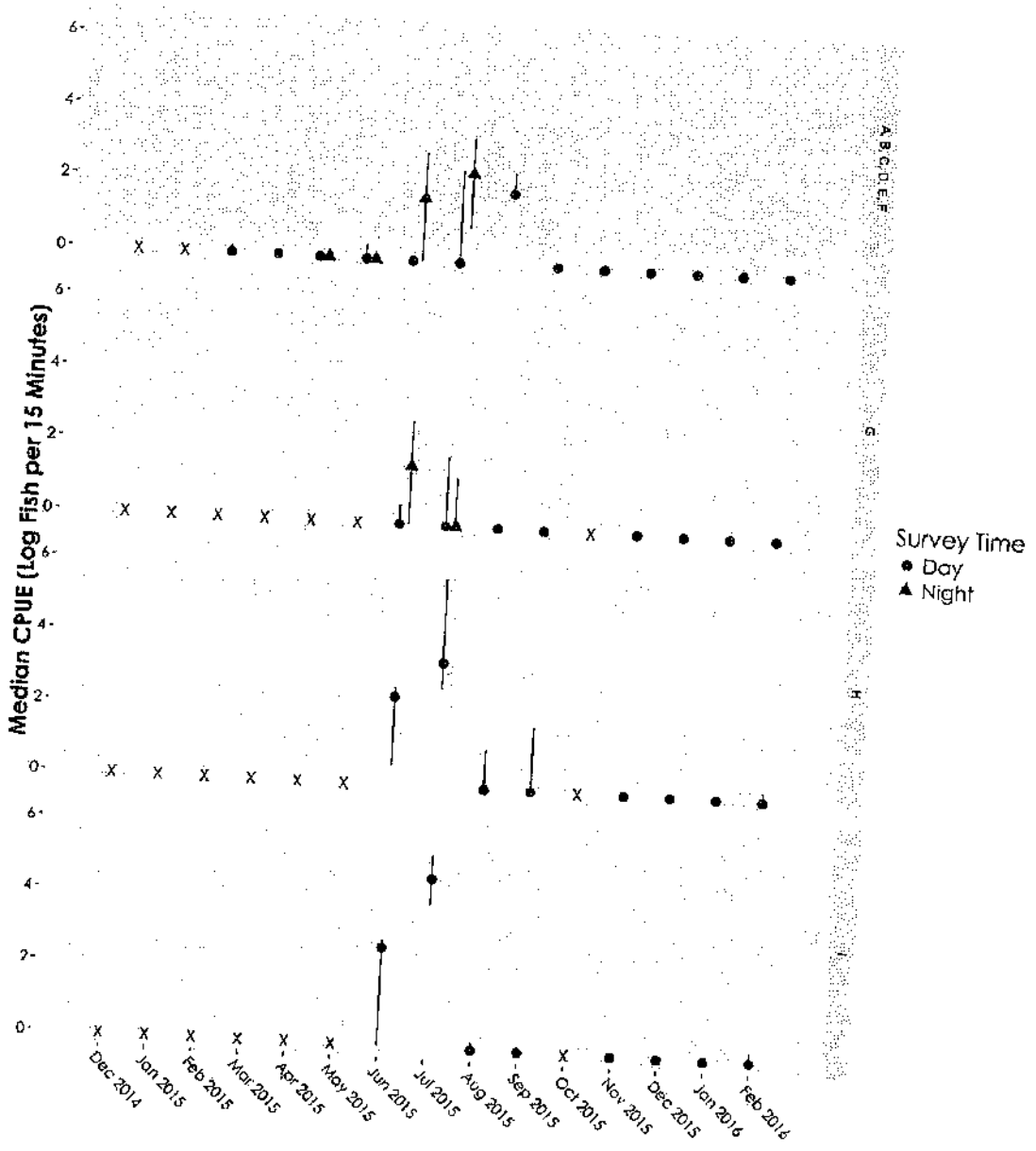
3.3.2.2.10 Fish Larvae

Although median CPUE of fish larvae in beach seines was typically low, large catches were occasionally encountered in areas A, G, and H in the summer months (Appendix B, Section B.2). Relatively large larval fish CPUE was also noted in survey areas G, H, and I in February (Figure 40). Fish larvae were caught in trawls between June and September in all survey areas (Figure 41, Appendix B, Section B.2).



NOTE:
X = did not fish
S = Safety concerns; did not fish

Figure 40 Median Catch Per Unit Effort and Interquartile Range of Fish Larvae in Beach Seine Catches

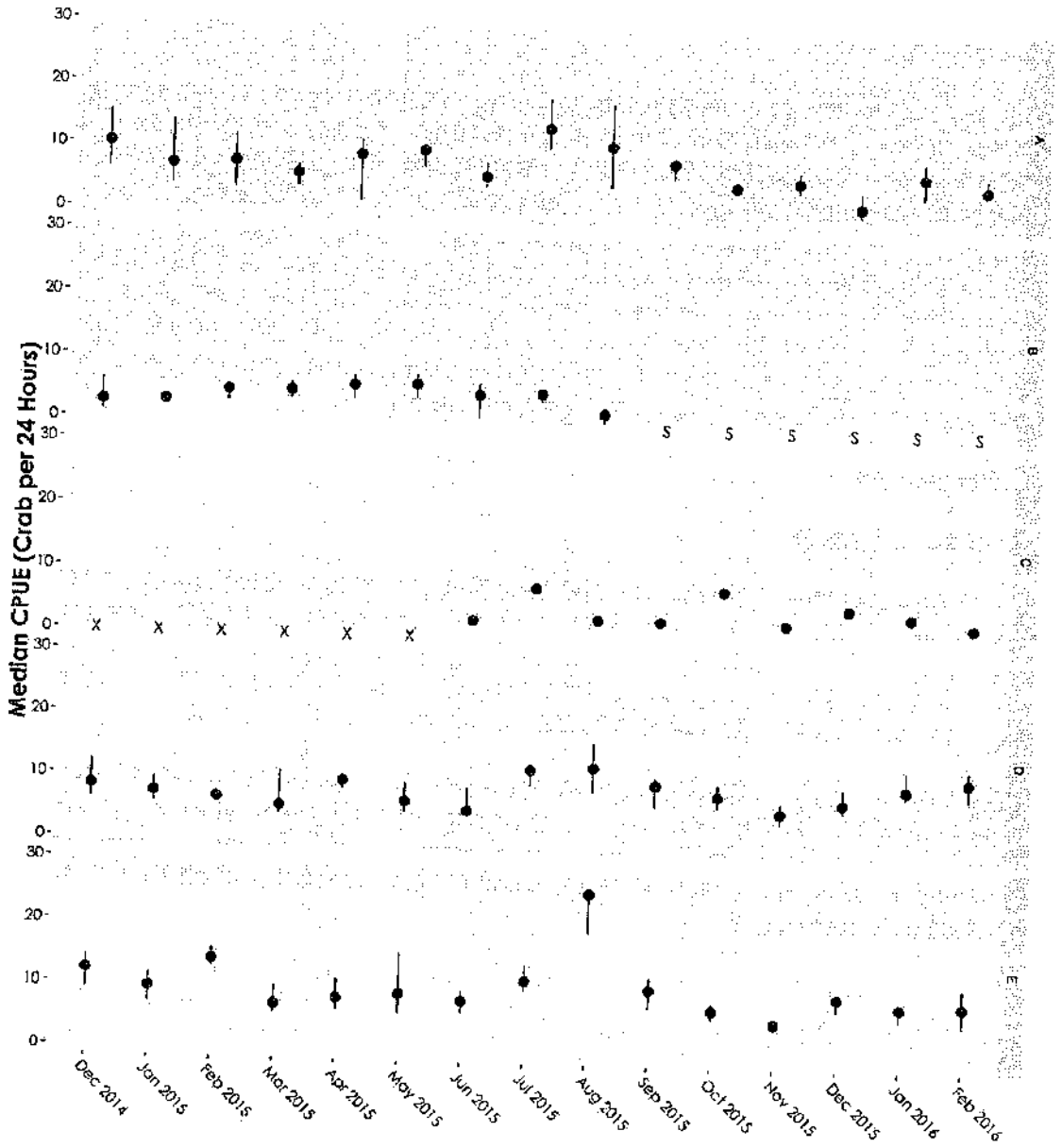


NOTE:
X = did not fish

Figure 41 **Median Catch Per Unit Effort and Interquartile Range of Fish Larvae in Trawl Catches**

3.3.2.2.11 Dungeness Crab

Dungeness crab catch varied across all survey areas, from 2 to 26 crabs per 24 hours of soak time, with no clearly discernable seasonality (Figure 42). Survey areas A and D showed relative consistent catches between 5 and 10 crabs per 24 hours of soak time throughout the year, whereas survey area E fluctuated around 10 but with a distinct high observed in August of over 25 crabs per 24 hours of soak time. Catches in survey areas B and C were consistently below 10.



NOTE:
X = did not fish
S = safety concerns; did not fish

Figure 42 **Median Catch Per Unit Effort and Interquartile Range of Dungeness Crab in Trap Gear**

3.3.3 Demographics

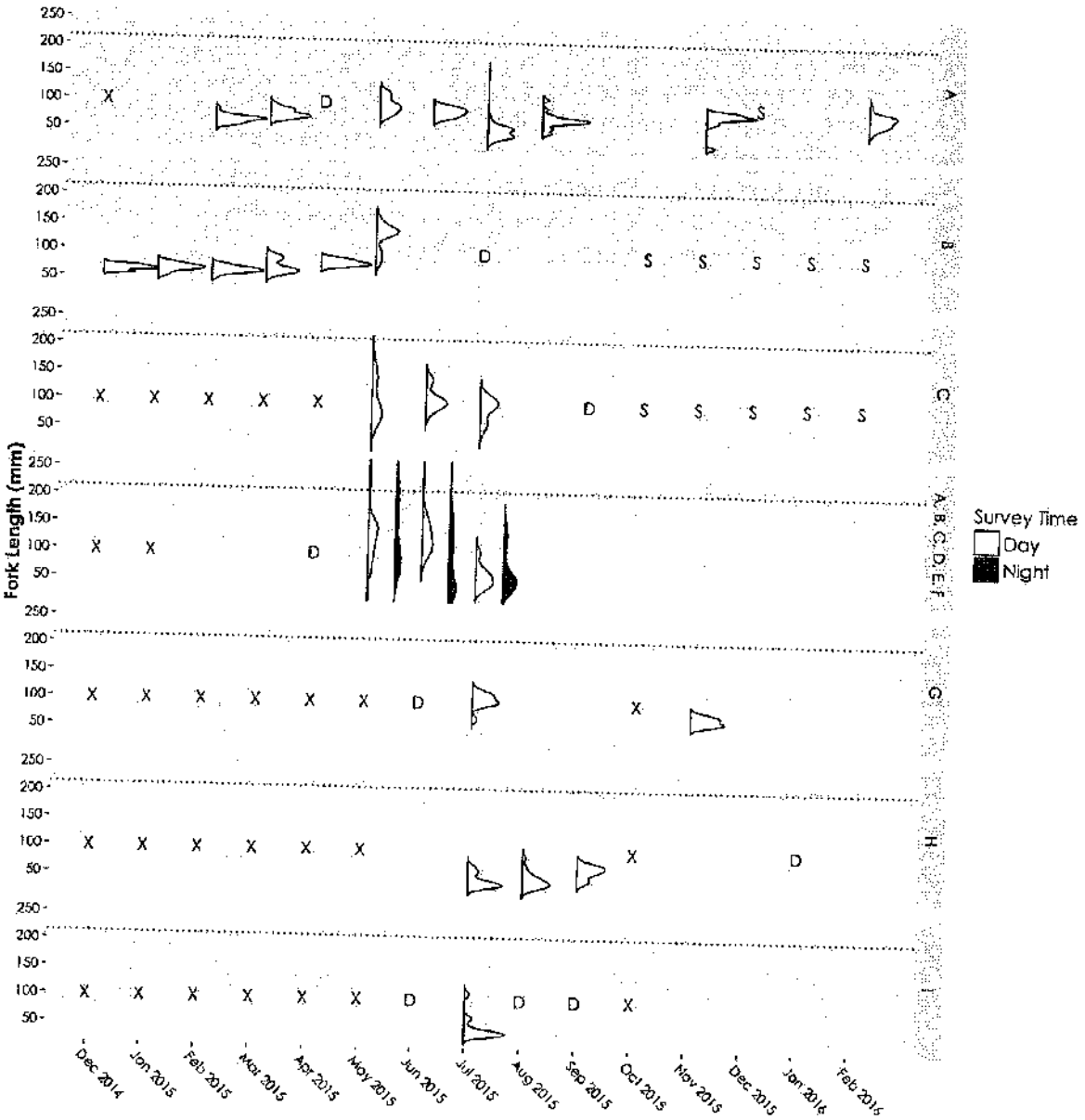
The fishing techniques used in the Program were not selected to equally target all fish and invertebrate species' life stages given the changes in species growth and habitat selection over time. For example, it is not surprising that adult Pacific salmon were not caught, given that commercial salmon fishery-sized gear or type (large purse seines, gillnets, trolling) were not used. Similarly, commercial crab traps are not designed (even with modifications to the escape hatches) to catch small sized crab. Given the types of fishing gear used and the different times sampled in different survey areas, the demographic size frequency data may not be comprehensive for some species with large size range. In contrast, the gear types used are expected to have effectively sampled the full range of sizes for life stages of Pacific herring, surf smelt, salmon smolts, and other smaller size life stages and species.

3.3.3.1 Fork length

3.3.3.1.1 Pacific Herring

Pacific herring ranged from 30 to 257 mm (fork length). The majority of herring were immature juveniles between 49 and 93 mm, as demonstrated by the frequency distribution, interquartile range, and length at which 50% of the population are mature (i.e., 214 mm), shown as the dotted line in Figure 43 (Lassuy and Moran 1989; FishBase 2016). A small proportion of mature adults was caught in May and June 2015 (inclusive; see panel "A, B, C, D, E, F,").

The size frequency data indicated that survey areas were often occupied by larval or juvenile herring throughout much of the year. Low numbers of adult herring were observed in the survey region during the summer growing season. These observations coincided with a small herring spawn on marine vegetation patches in survey area F in late May (see Appendix D – Incidental Sightings for further discussion).



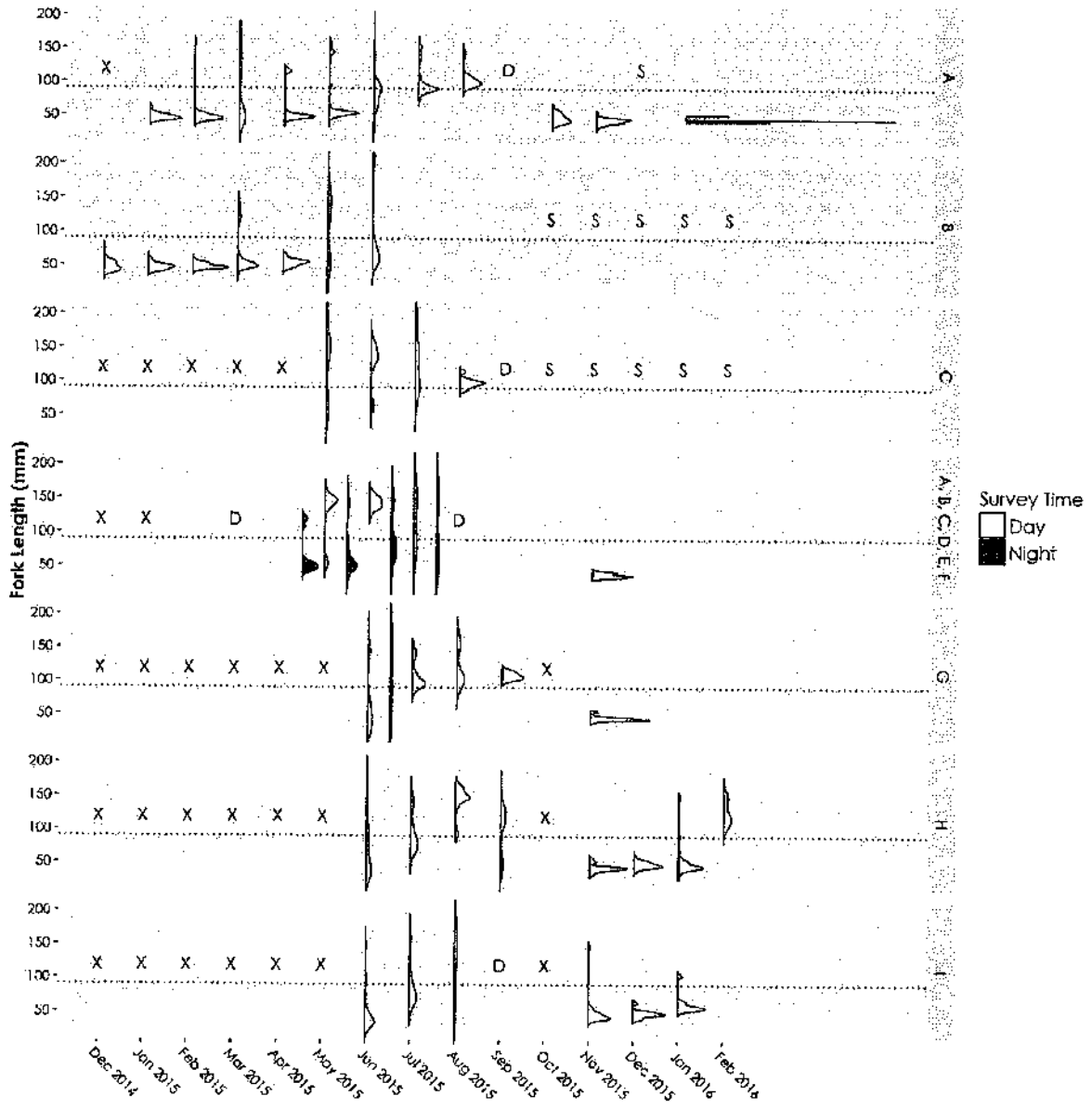
NOTE:

Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.
Dotted line = length at which 50% of the population is mature (214 mm).

Figure 43 Size Frequency Distribution for Pacific Herring

3.3.3.1.2 Surf Smelt

Surf smelt ranged from 40 to 208 mm (fork length) (Figure 44). Fish under 40 mm were hard to identify in the field and were conservatively classified as "fish larvae". The majority of surf smelt were between 41 and 105 mm, and were immature fish (length at which 50% of population are mature = 90 mm; shown as a dotted line on Figure 44) (FishBase 2016). Mature surf smelt were caught in low numbers in most months and more frequently between May and August. In British Columbia, size at maturity for surf smelt is poorly defined, but individuals greater than 140 mm in length are generally thought to be mature (Therriault et al. 2002).

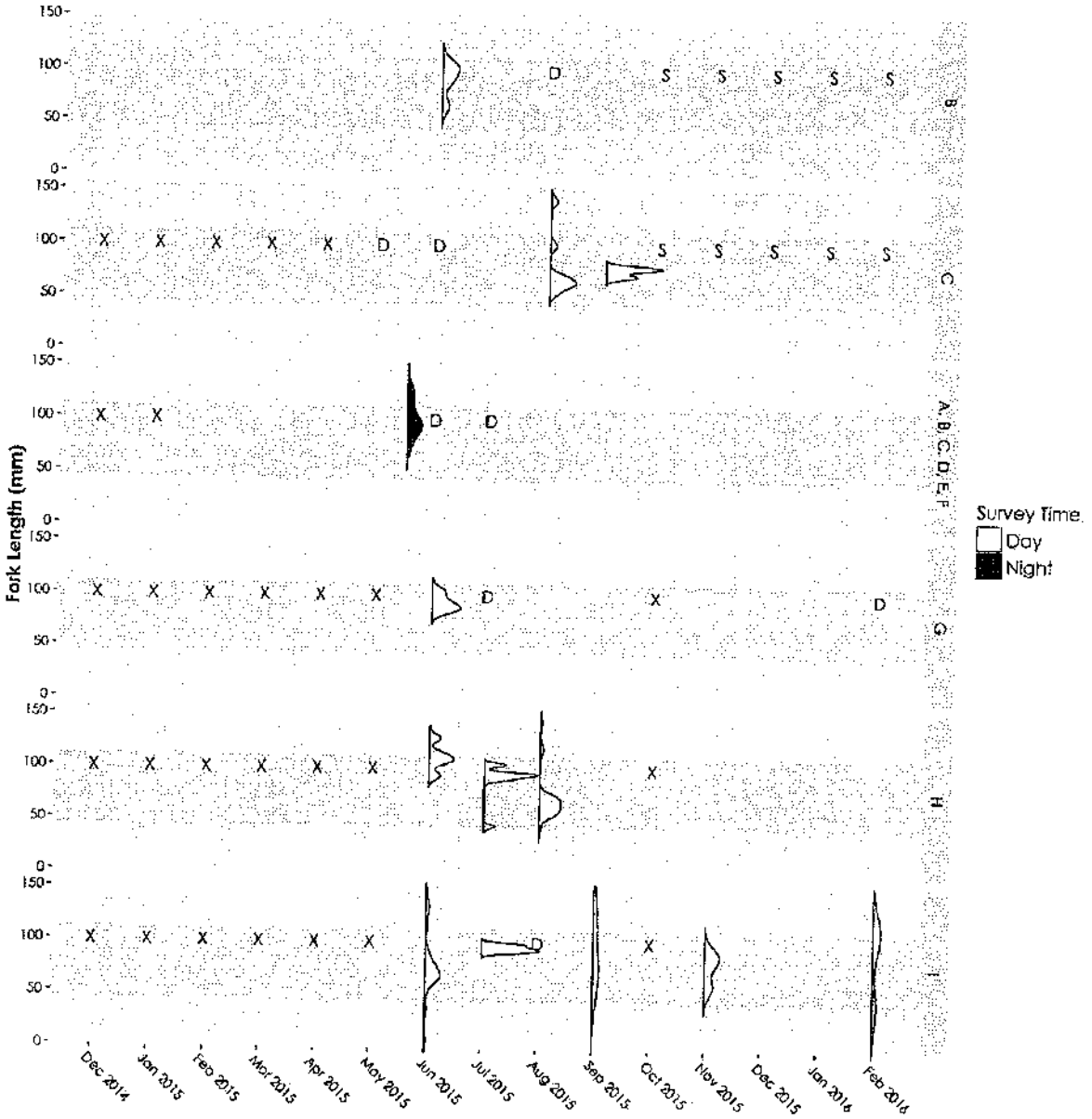


NOTE: Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.
Dotted line = length at which 50% of the population is mature (90 mm).
Panel A – Jan 2016 = x-axis extended to accommodate extremely peaked kernel density.

Figure 44 Size Frequency Distribution for Surf Smelt

3.3.3.1.3 Chinook Salmon

Chinook salmon caught ranged from 36 to 149 mm (fork length), with a higher proportion between 66 and 101 mm (Figure 45). In some instances in both survey area and month, multiple peaks were observed with limited size ranges for Chinook smolts. For example, survey area I in June 2015 had a small peak above 100 mm and a larger peak at 70 to 80 mm. The size range of Chinook observed indicates the potential presence of two age classes (one and two year old smolts) in the survey region (McPhail 2007; Quinn 2005). Smaller one year old Chinook smolts often range from 45 to 110 mm, while two year old smolts are often larger than 110 mm. The presence, although in low numbers, of juvenile Chinook in survey area I in September and February also suggests that some Chinook may use the outer Skeena estuary for rearing (Ocean Ecology 2014).



NOTE:
Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.
Green rectangle = size range at which Chinook smolts transition to yearling smolts (45 – 110 mm).

Figure 45 Size Frequency Distribution for Chinook Salmon

3.3.3.1.4 Chum Salmon

Chum salmon ranged from 28 to 87 mm (fork length), with the majority of fish between 45 and 53 mm (Figure 46). The chum salmon were identified as smolts during seaward migrations from freshwater (FishBase 2016; Lamb and Edgell 2010; McPhail 2007; Quinn 2005). Chum salmon smolts were caught from February to June 2016 in survey areas A, B, C, D, I, and trawls across survey areas A, B, C, D, E, F. No legal-sized chum salmon (greater than 30 cm) were caught during the surveys.

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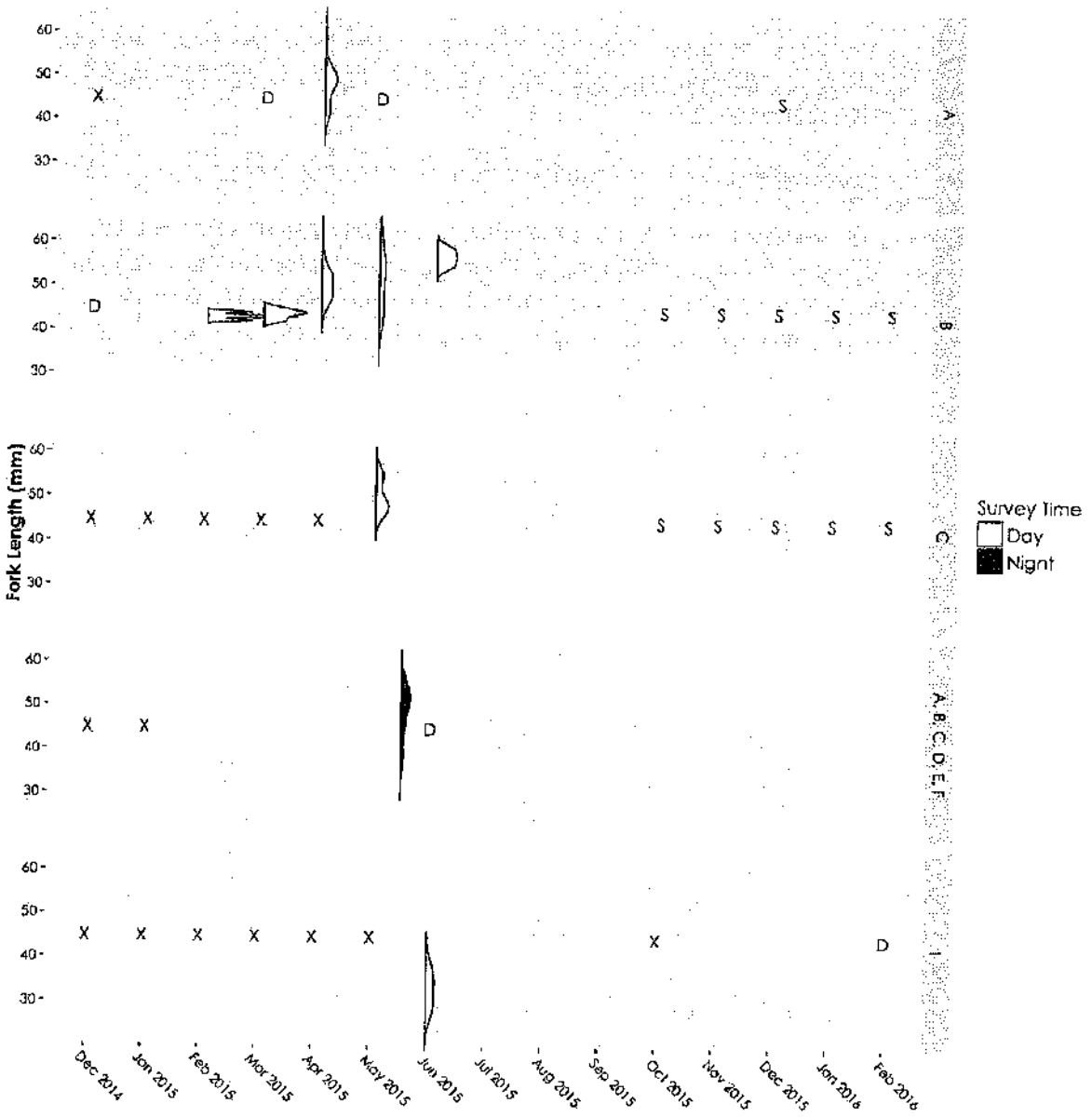


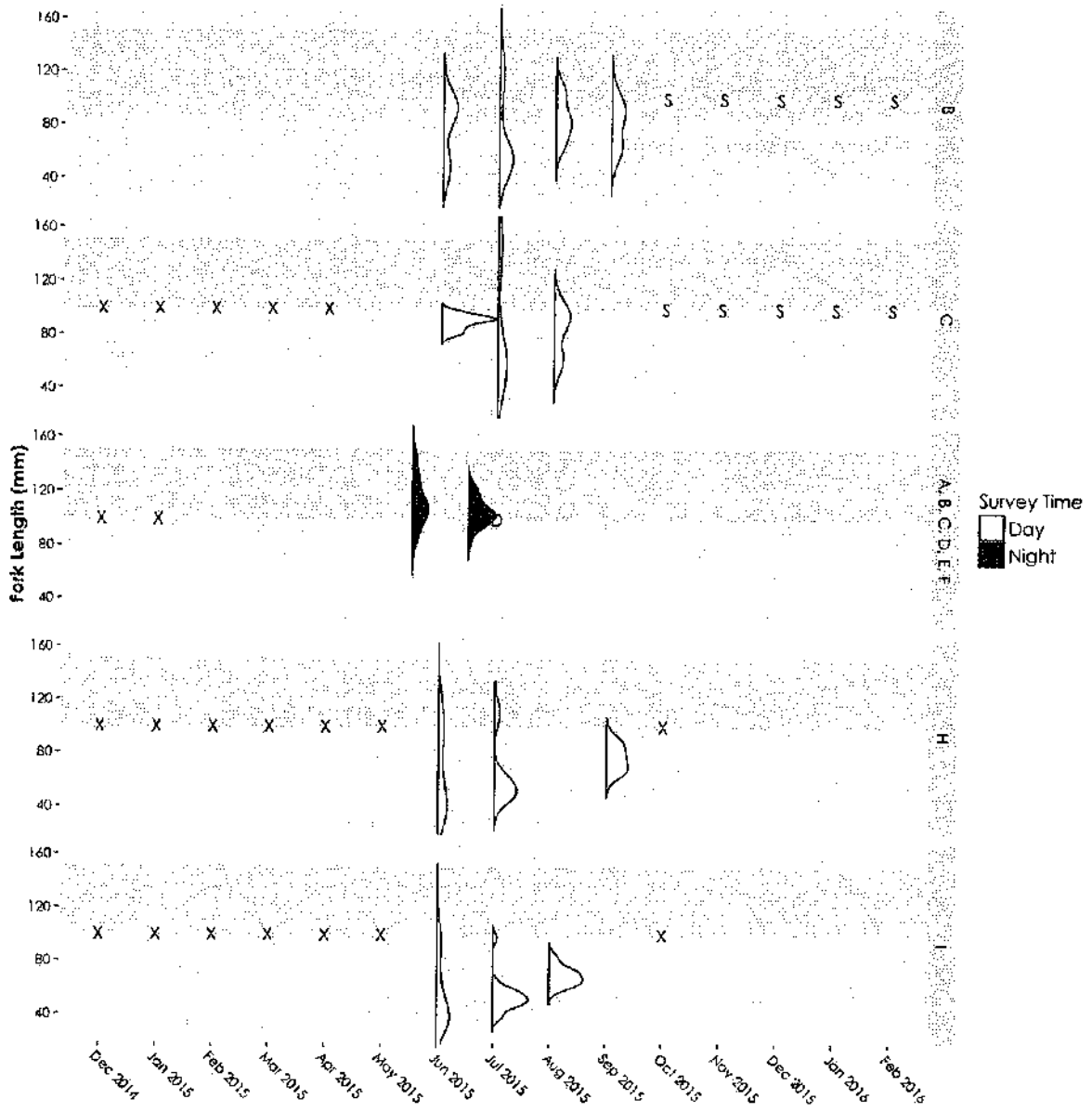
NOTE:
Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.

Figure 46 Size Frequency Distribution for Chum Salmon

3.3.3.1.5 Coho Salmon

Coho salmon ranged from 32 to 162 mm (fork length), with the majority of fish between 52 and 100 mm (Figure 47). The coho salmon were identified as smolts during seaward migrations from freshwater (McPhail 2007; Quinn 2005).

However, a second life stage (yearling smolts, ranging from 100 to 150 mm), may also have been caught (see the green rectangle on
Figure 47 which indicates the size at which coho transition to yearling smolts; McPhail 2007; Quinn 2005). Larger coho smolts (e.g., greater than 125 mm) were observed in areas B and C in August and September, but not in survey areas H and I. Coho were caught from May to September 2015 in survey areas B, C, H, I, and in June and July in trawls across survey areas A, B, C, D, E, F.



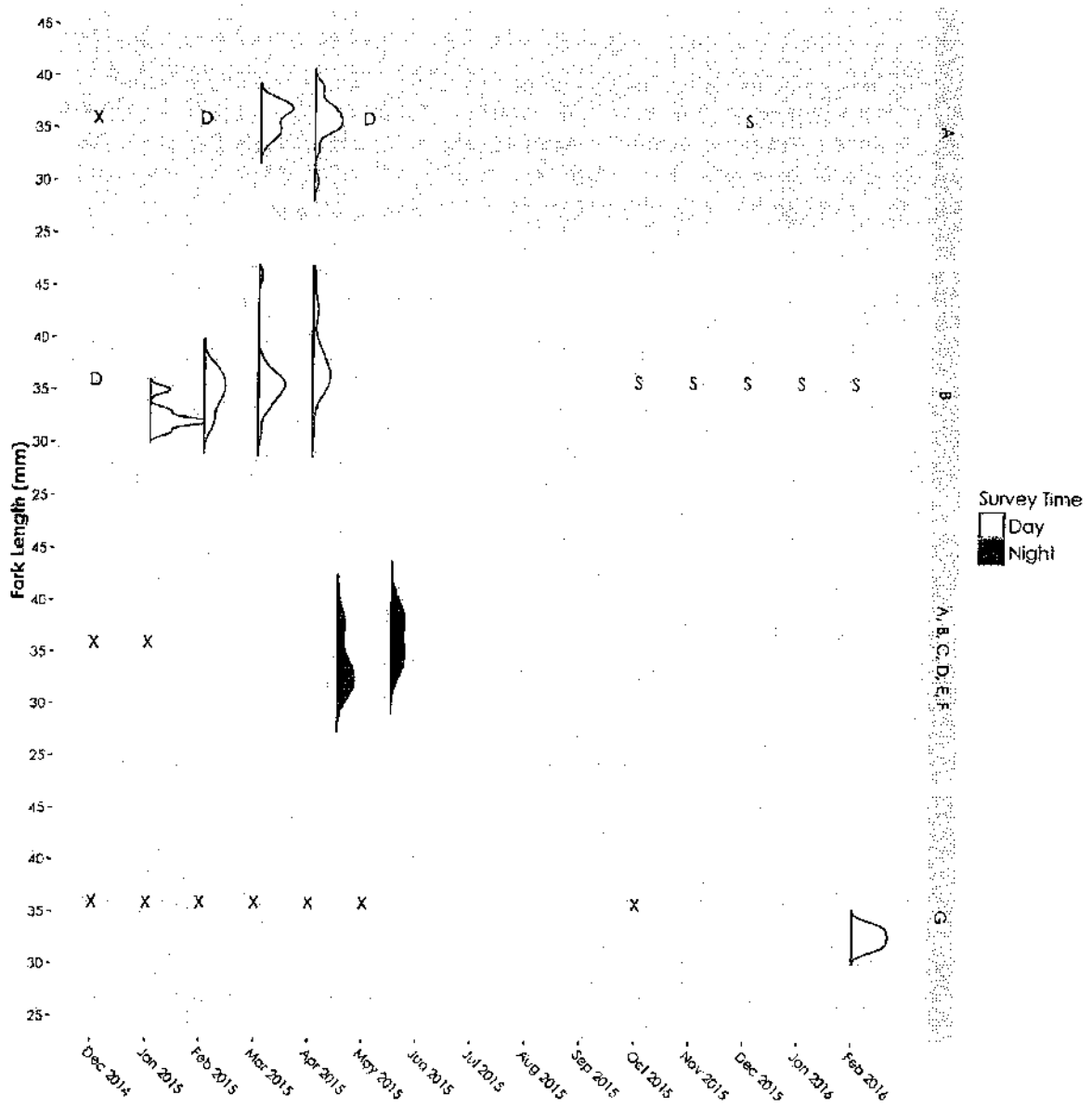
NOTE:

Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.
Green rectangle = size range at which coho transition to yearling smolts (100 – 150 mm).

Figure 47 Size Frequency Distribution for Coho Salmon

3.3.3.1.6 Pink Salmon

Pink salmon had a small size range, with fork length ranging from 30 to 46 mm, with the majority of fish from 34 to 37 mm (Figure 48). All pink salmon captured were identified as smolts during seaward migrations from freshwater (McPhail 2007; Quinn 2005). Smolt migrations in the survey areas were observed from January to June.

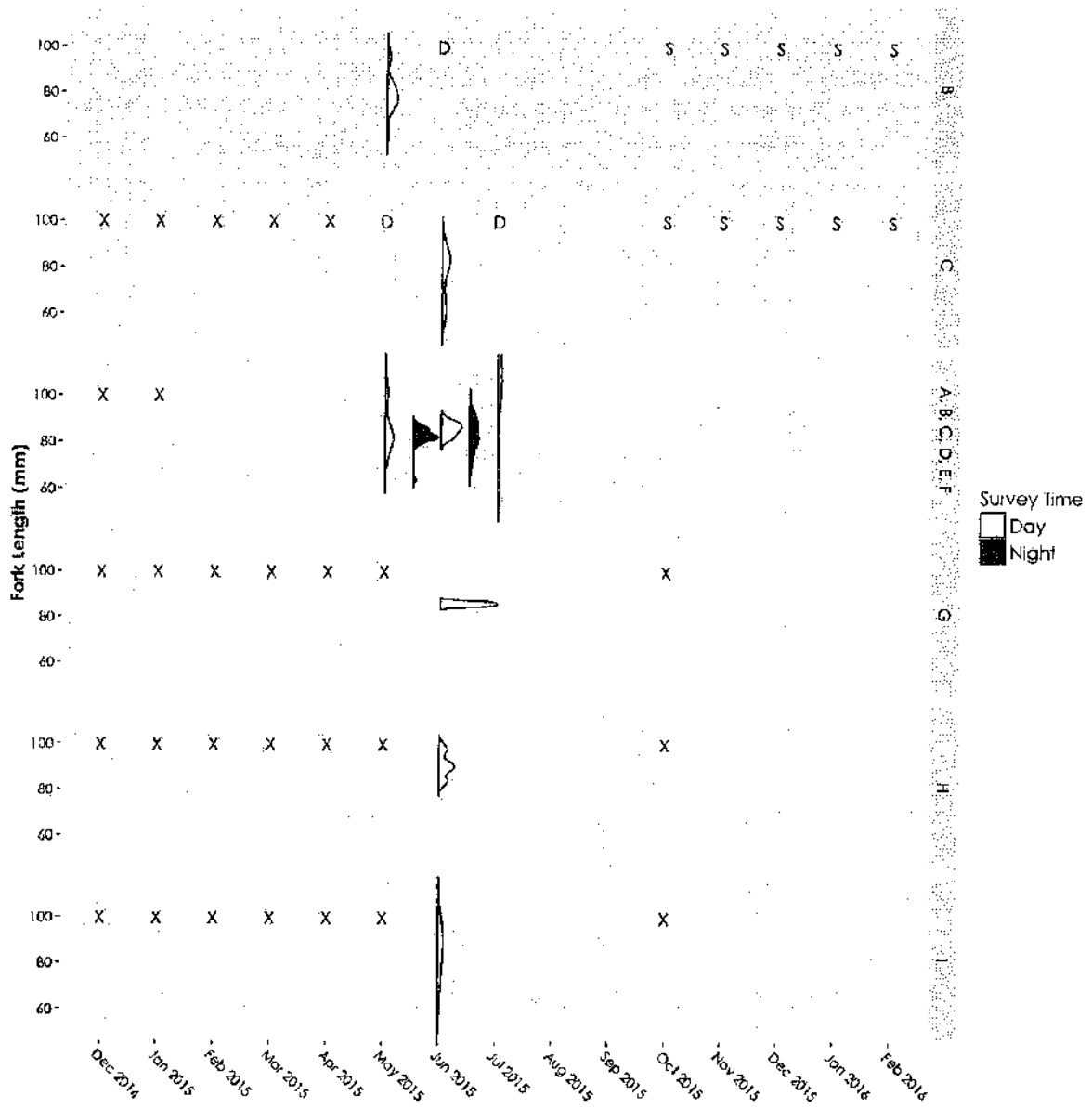


NOTE:
Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.

Figure 48 Size Frequency Distribution for Pink Salmon

3.3.3.1.7 Sockeye Salmon

Sockeye salmon ranged from 49 to 138 mm (fork length), with the majority of fish ranging from 80 to 88 mm (Figure 49). The sockeye salmon were identified as primarily year one smolts during seaward migrations from freshwater (McPhail 2007; Quinn 2005). Sockeye year one smolts were observed in three months (May through July) in survey areas B, C, F, H, I, and in trawls across survey areas A, B, C, D, E, F. However, it is possible that year two smolts (generally > 100 mm; Groot and Margolis 2003) were also detected during the same time period.



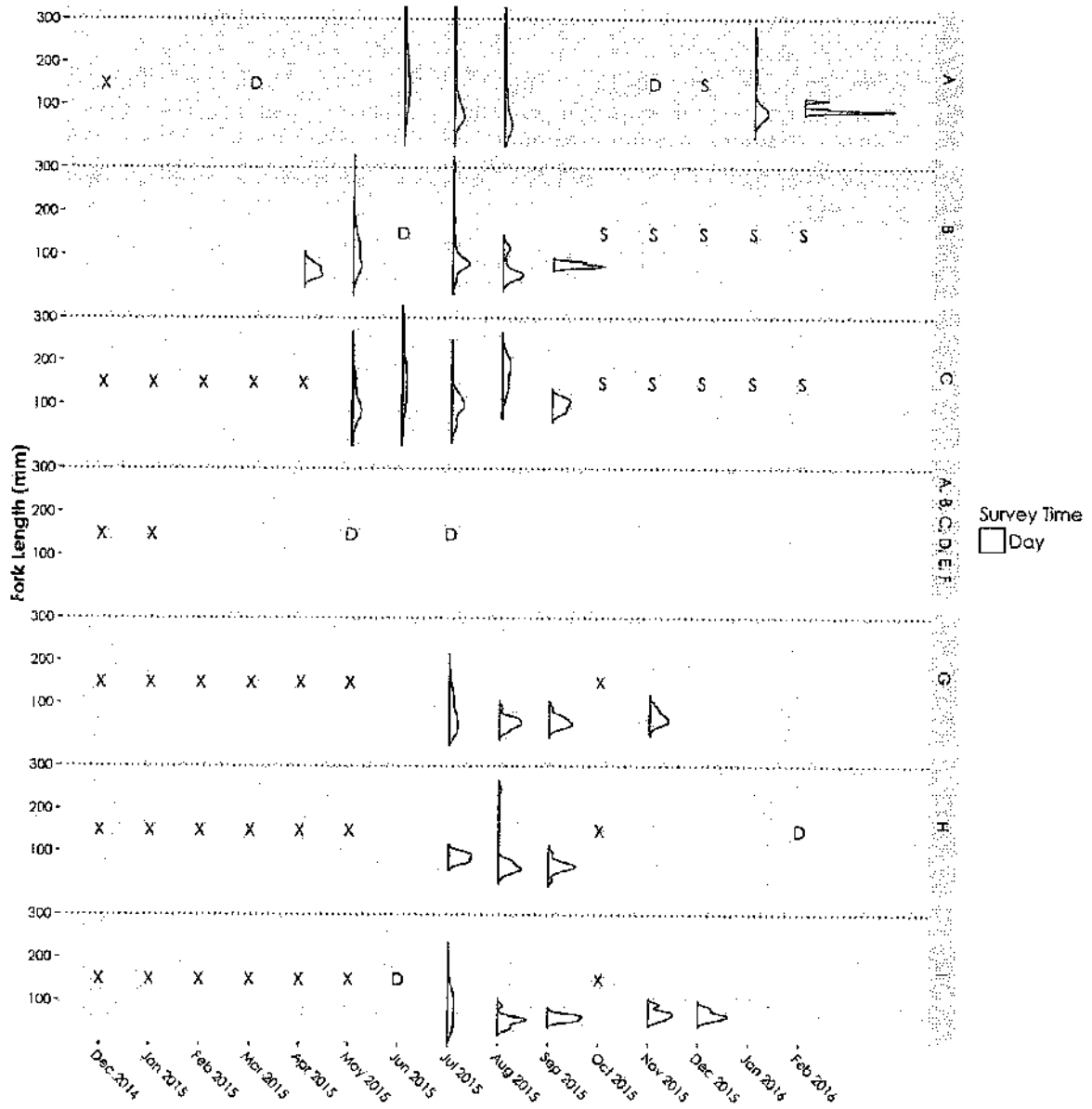
NOTE:
Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.

Figure 49 Size Frequency Distribution for Sockeye Salmon

3.3.3.1.8 English Sole

English sole ranged from 30 to 315 mm (fork length), with the majority of fish ranging from 51 to 102 mm. Fish in this size range are considered immature juveniles, with the length at which 50% of the population is mature be equal to 300 mm (FishBase 2016; Figure 50). Small flatfish (less than 30 mm) were difficult to identify in the field and were classed as "unidentified flatfish". Low numbers of larger adult sole (greater than 300 mm) were caught in May through August 2015 in survey areas A, B, C.

Temporal and Spatial Distribution of Fish and Invertebrates
May 20, 2016

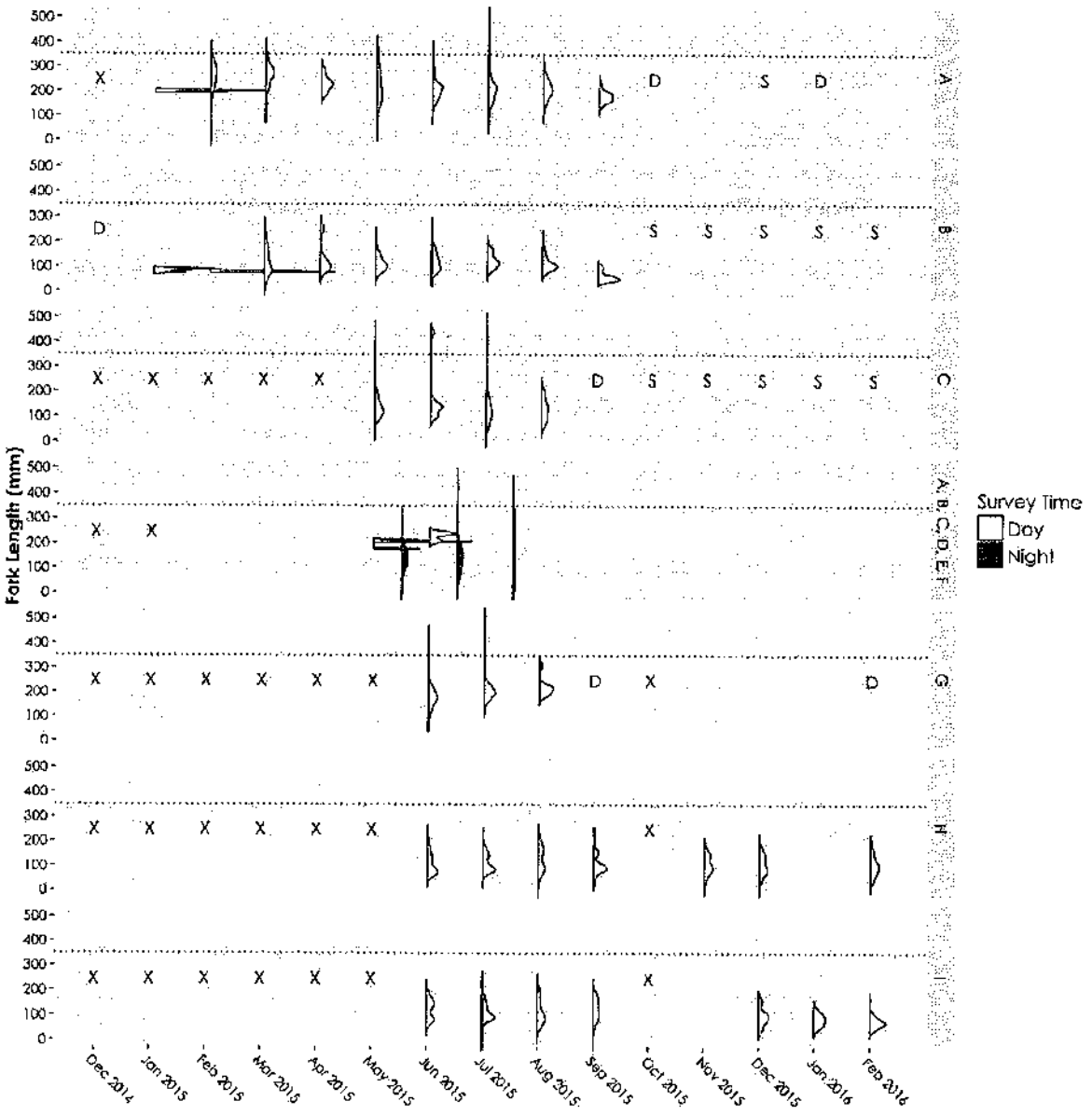


NOTE:
Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.
Dotted line = length at which 50% of the population is mature (300 mm).

Figure 50 Size Frequency Distribution for English Sole

3.3.3.1.9 Starry Flounder

Starry flounder ranged from approximately 50 to 520 mm (fork length) (Figure 51). Most individuals caught were immature fish ranging from 94 to190 mm, with the length at which 50% of the population is mature = 350 mm (FishBase 2016). Low numbers of adult flounder were observed in survey areas A, C, and G between February and July and also caught in trawls in June and July. Juvenile starry flounder were caught in most beach seine sets throughout the survey period, in most areas.



NOTE:
Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.
Dotted line = length at which 50% of the population is mature (350 mm).

Figure 51 Size Frequency Distribution for Starry Flounder

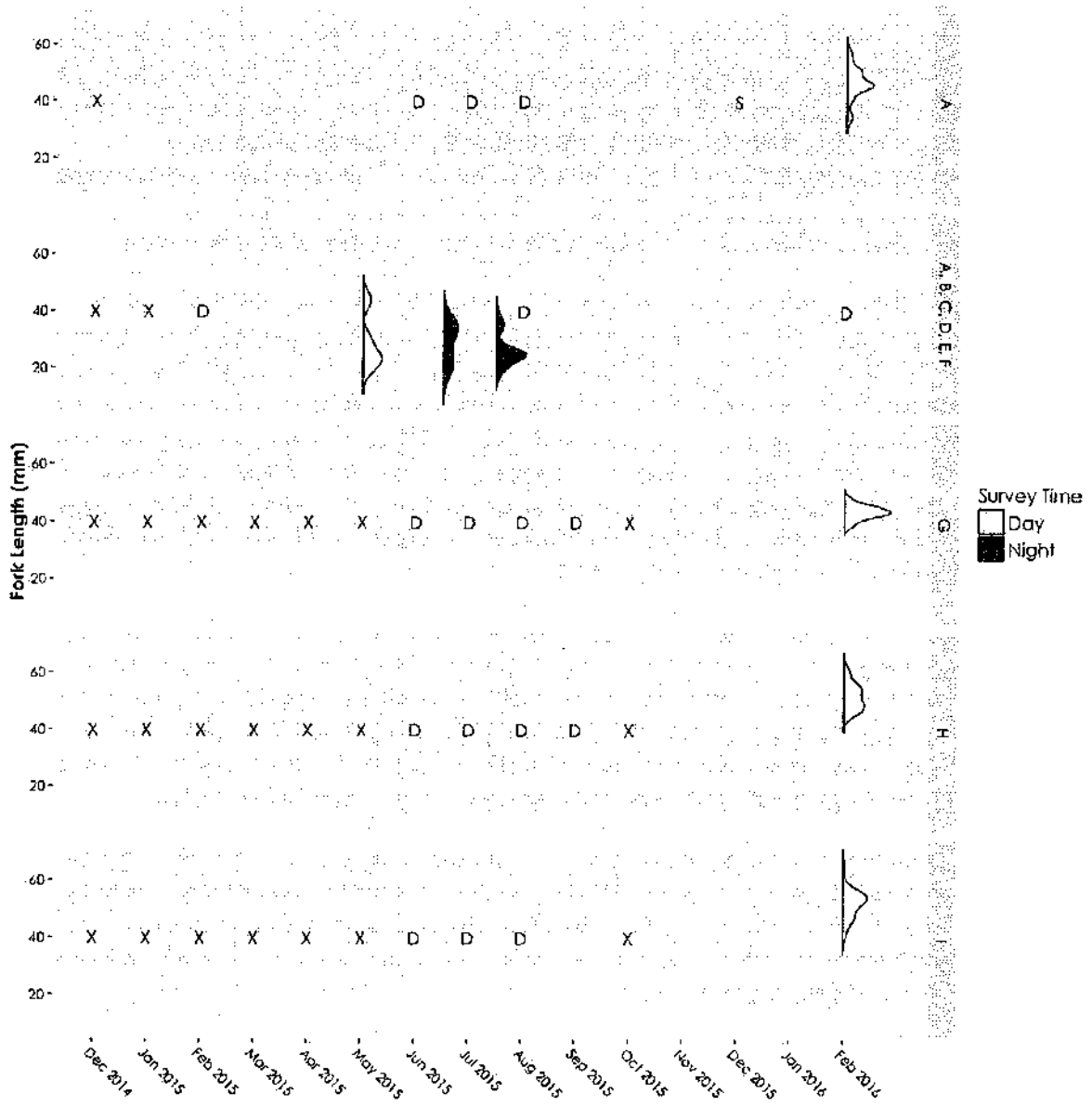
3.3.3.1.10 Fish Larvae

Larval fish ranged from 20 to 75 mm (total length), with the majority of fish ranging from 35 to 46 mm (Figure 52).

Larval fish were too small to identify to genus and species in the field. Larval fish samples were retained from survey areas A, B, and F from June 2015 trawl catches and sent for genetic analysis to the Canadian Centre for DNA Barcoding, University of Guelph, Ontario.

Of the 159 larval fish sent for DNA barcoding, species identification was confirmed in 148 through genetic analyses. Of these, 49 (33%) were confirmed as eulachon, originating from survey area A and F trawls. The 18 larvae collected from survey area F were identified to species: 17 (94%) were eulachon and one was a surf smelt. Of the 72 individuals collected from survey area B, 69 could be identified, and all of them were Pacific herring. Survey area A larval fish were the most diverse: of the 61 individuals able to be identified to species, 32 (52%) were eulachon, 18 (30%) were Pacific herring, 5 (8%) were surf smelt, 6 (10%) were sculpins (*Cottoidea spp.*) and 1 (2%) was a spotted snailfish.

Fish larvae were captured in both winter and summer months, with slightly larger larvae (greater than 40 mm) observed more often during winter (i.e., in February).



NOTE:
Blank entries = area fished but zero fish caught.
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.

Figure 52 Size Frequency Distribution for Larval Fish

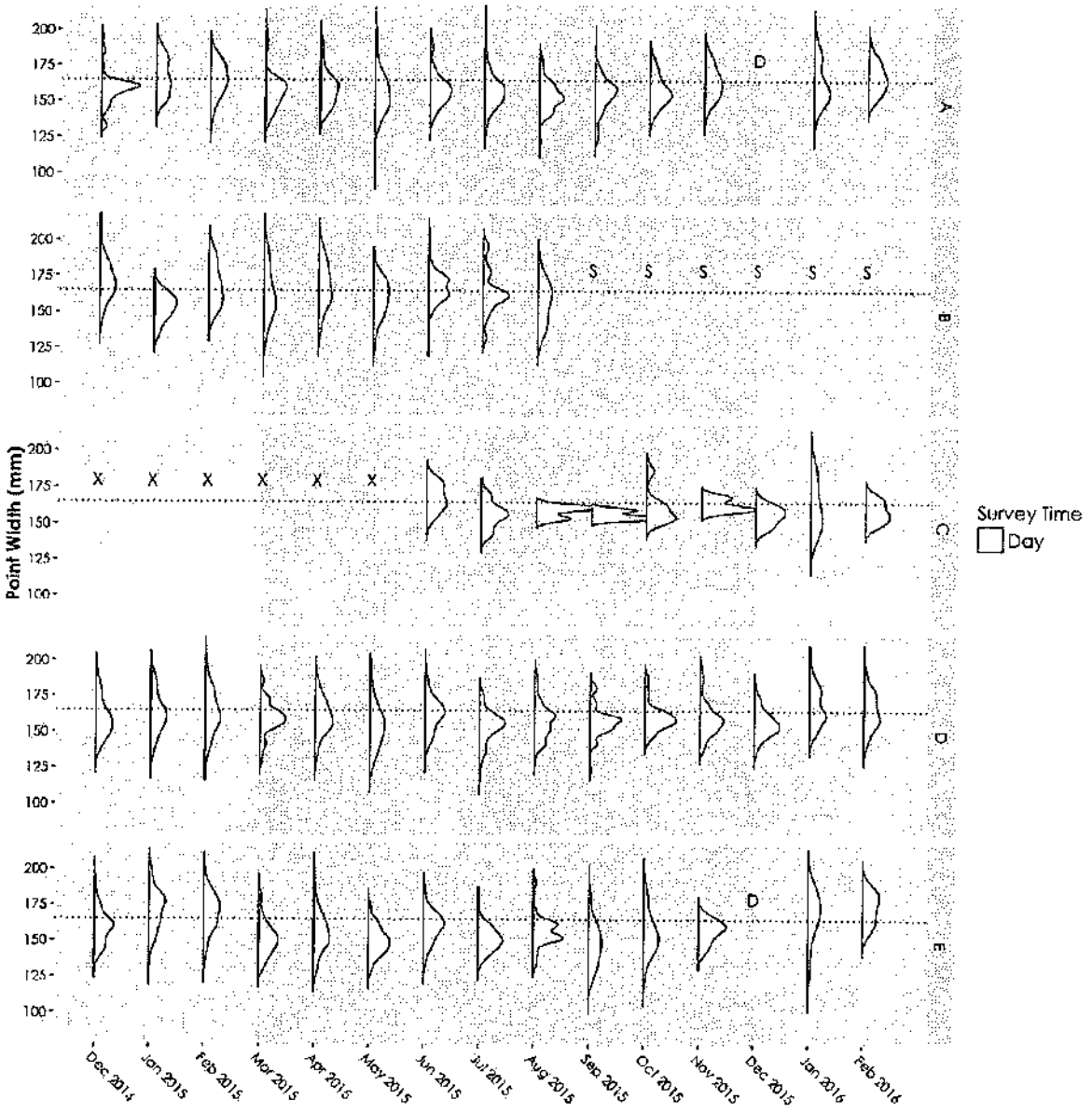
3.3.3.1.11 Dungeness Crab

Dungeness crab caught by trap ranged from 106 to 212 mm (point width), with the majority of crab ranging from 151 to 167 mm (Figure 53). Life stages observed in the survey region, based on size, included sub-adults (greater than 70 but less than 100 or 120 mm, for females and males, respectively), and mature individuals (greater 100 or 120 mm, for females and males, respectively (Dunham, et al. 2011). A horizontal dotted line at 165 mm shows the legal size limit for male Dungeness crabs on each panel in Figure 53. Most crabs caught were mature individuals. Dungeness crab weights were also plotted but are presented in Appendix B.

A high proportion of crab caught were males (median monthly proportion for males = 0.90, range of 0.51 to 1.00; Figure 54). The observed proportion of male crab was higher in the winter than in summer. The observed decline in male crab size seemed to coincide with the opening of the commercial crab fishery in area B, which is targeted on male crabs only. The commercial crab trap fishery has previously been documented to cause higher mortality to legal sized male crabs (Smith and Jamieson 1989). However, a competing and not necessarily mutually exclusive explanation for the increase in proportion of male crabs caught in the winter is that male and female crab have different catchabilities in baited crab traps, especially during winter months when females are less active (Dunham et al. 2011).

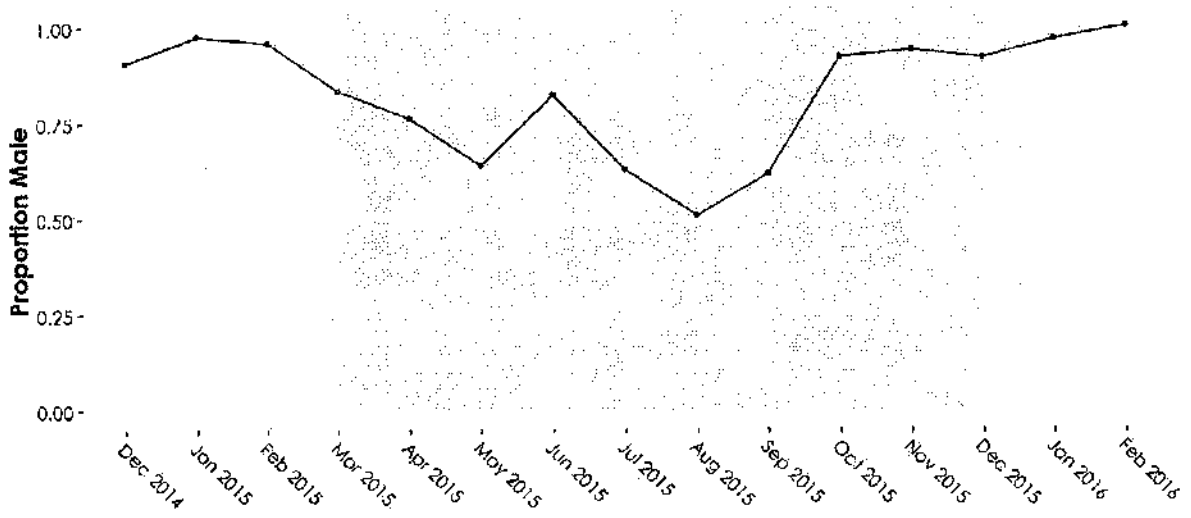
The monthly proportion of Dungeness crabs observed with some sign of injury was approximately 0.31 (31%), and ranged from 0.17 to 0.48 (17 – 48%, Figure 55). The largest proportion of injured crabs was observed in April 2015, with nearly half of all individuals showing some sign of injury (e.g., missing limb, damaged carapace, or having a regenerating limb). In contrast, the proportion of injured crabs was lowest in May 2015 (0.17 or 17%). With the exception of April and May, the proportion of injured crabs remained relatively constant around 0.31 (31%).

While it may be possible that the opening of the commercial crab fishery (in March) contributed to the incidence of injuries detected (e.g., handling injuries), another possible (and not mutually exclusive) explanation is the timing of mating. Male and female crabs generally mate in April or May; the potential for injuries inflicted by competing male interactions may have led to higher proportions of male injury at that time.



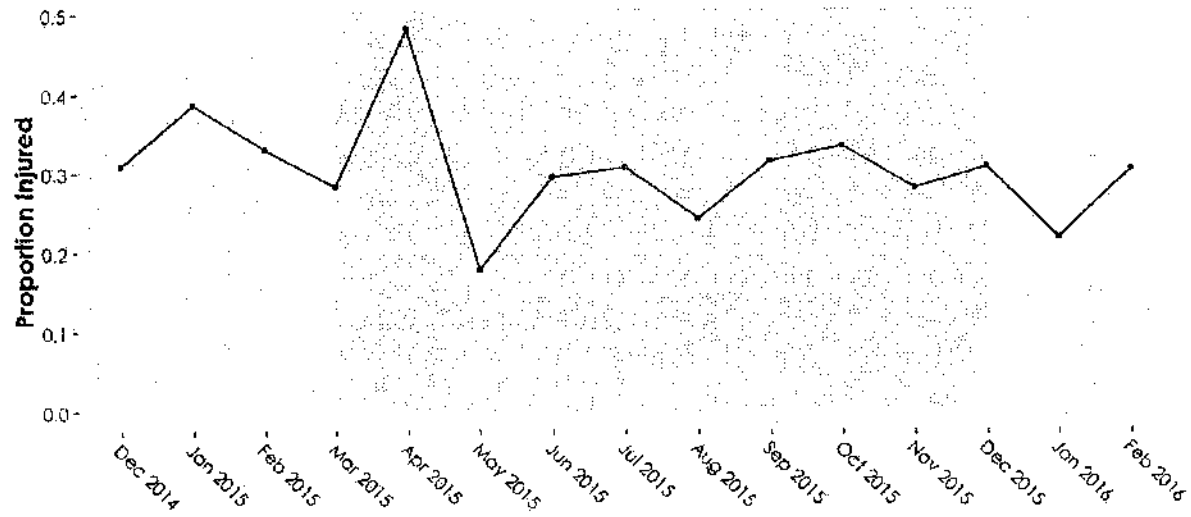
NOTE:
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = safety concerns; did not fish.
Dotted line = legal size limit (165 mm)
Green rectangle = commercial crab fishery opening in Area B.

Figure 53 Size Frequency Distribution for Dungeness Crab



NOTES: Green rectangle = commercial crab fishery opening in Area B.

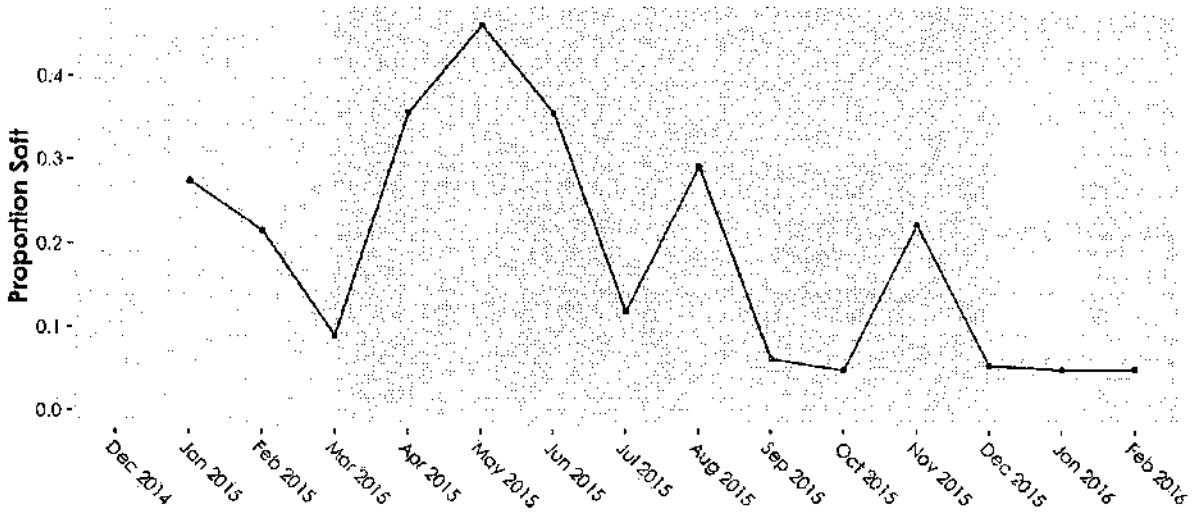
Figure 54 Proportion Male Dungeness Crab



NOTES: Green rectangle = commercial crab fishery opening in Area B.

Figure 55 Proportion Injured Dungeness Crab

The median monthly proportion of soft-shelled crab caught by trap was 0.17 (17%), and ranged from 0.05 to 0.46 (5 to 46%). The proportion of soft-shelled crabs was highest in May and it declined through the summer to fall (Figure 56). Female crabs molt (April through August) prior to mating in the spring and summer, and this may partially explain the increases in the proportion of soft-shelled crabs detected in May and August. However, the timing of molting varies for juvenile and adults crabs, and between male and female crabs (Dunham et al. 2011) such that no clear association with known life history characteristics and these data is evident.



NOTES: Green rectangle = commercial crab fishery opening in survey area B.

Figure 56 Proportion of Soft Shelled Dungeness Crab

3.3.3.2 Salmon Smolt Stomach Contents

Stomach content analysis was done on 246 salmon smolts (152 coho, 51 sockeye, 36 Chinook 7 chum and 0 pink) collected during daytime and nighttime surveys across all survey areas. Fish were captured in beach seines, purse seines, and trawls. Targets of 100 stomach samples per salmon species could not be met because of low numbers of juvenile salmon captured. To compare stomach contents of salmon smolts, results were grouped by survey area to represent the natural variability of fish, fish habitats, and fish prey across the survey region. The results of trawl-captured salmon from survey areas A through F (Table 4) are summarized together because the location of the salmon captured along transects could not be assigned to a single survey area. Due to low survey area specific sample sizes of salmon smolts from seines, results are not necessarily an accurate reflection of salmon smolt diets; these results are presented in Appendix B.4.

Table 4 Percent by Number (% N) of Prey Organisms and Percent Frequency of Occurrence (% F) in Salmon Smolt Stomach Contents caught by trawl in Survey Areas A through F

Stomach Content Prey Taxa	Salmon Smolts									
	Pink (n = 0)		Chinook (n = 9)		Chum (n = 7)		Coho (n = 43)		Sockeye (n = 34)	
	% N	% F	% N	% F	% N	% F	% N	% F	% N	% F
Crustacea (Planktonic)										
Euphausiacea (krill)	-	-	0.0	0.0	0.0	0.0	1.2	4.7	0.1	2.9
Copepoda	-	-	1.2	11.1	0.4	42.9	1.3	11.6	1.4	26.5
Cladocera	-	-	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.9
Decapoda	-	-	72.0	11.1	0.0	0.0	4.4	18.6	0.4	8.8
Crustacea (Benthic/Planktonic)										
Cumacea	-	-	0.0	0.0	6.0	28.6	52.8	14.0	18.0	20.6
Cirripedia	-	-	1.2	11.1	0.0	0.0	0.2	2.3	23.5	35.3
Amphipoda/Isopoda	-	-	1.2	11.1	1.4	57.1	3.0	23.3	0.3	14.7
Ostracoda	-	-	0.0	0.0	0.0	0.0	1.0	7.0	0.0	0.0
Unknown Crustacea	-	-	0.0	0.0	3.3	28.6	0.5	7.0	1.2	8.8
Insects/Arachnids	-	-	20.7	55.6	88.3	85.7	15.0	51.2	49.4	55.9
Pisces (fish)	-	-	0.0	0.0	0.0	0.0	2.1	9.3	0.1	2.9
Mollusca/Gastropoda	-	-	0.0	0.0	0.0	0.0	16.9	4.7	0.0	0.0
Nematoda	-	-	0.0	0.0	0.0	0.0	0.2	2.3	0.0	0.0
Nemertea	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polychaeta	-	-	0.0	0.0	0.0	0.0	0.2	2.3	0.0	0.0
Unknown Arthropod	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-food items	-	-	0.0	0.0	0.4	14.3	1.3	11.6	2.4	23.5
Undetermined materials	-	-	2.4	22.2	0.0	0.0	0.0	0.0	0.7	32.4
% Fullness (Median)	-		10		55		20		50	
% Digested (Median)	-		90		80		70		90	
Total prey items counted	-		82		927		608		1783	
Prey items per fish	-		9.1		132.4		14.1		52.4	
Empty stomachs (%)	-		11.1		0		28		11.8	

NOTE:

%N Percent by number of prey relative to prey counted

%F Percent occurrence observed in stomach samples

3.3.3.2.1 Survey Areas A, B, C, D, E, and F

Across survey areas A, B, C, D, E, and F, 93 salmon smolts (9 Chinook, 7 chum, 43 coho and 34 sockeye) were captured in trawls. All salmon captured had a relatively low proportion of stomach fullness (10 – 55 %) and a high proportion of digested prey and materials (70 – 90%).

Stomach contents of the salmon smolts captured by trawl across survey areas A through F were dominated (in number and frequency) by crustacean planktonic prey, crustacean benthic prey, and terrestrial insects (Table 4).

Terrestrial insects and arachnids comprised a high proportion of contents in stomachs of chum (88.3%) and sockeye (49.4%) salmon, with lower proportions in Chinook (20.7%) and coho (15%) salmon. Insects included terrestrial species like common flies, mosquitos, beetles, bees, and wasps, which often float and are discharged from river surface waters. Small fish prey was found in 9.3% (4 of 43) of coho salmon stomachs and 2.9% (1 of 34) of sockeye salmon stomachs, with none present in chum or Chinook salmon stomachs. Coho salmon stomachs showed the greatest diversity in prey types across benthic and planktonic crustaceans, nearshore benthic crustaceans, terrestrial insects, and small fish. Sockeye salmon stomachs contained primarily insects, arachnids, and benthic/planktonic crustacea (cumaceans, cirripedes, amphipods, and isopods) and less frequently planktonic crustacea (euphausiids, copepods, cladocerans, and decapods). Chinook salmon stomachs contained more decapods than the other species of salmon. Chum salmon had the largest number of prey per fish. Empty stomachs were observed in coho, Chinook, and sockeye salmon.

3.4 SUMMARY

Four specific survey techniques, three exploratory techniques, and stomach content analyses were used to identify and describe the fish and invertebrate species present in the survey region and describe salmon smolt prey:

- Hydroacoustic transects that provided estimates of general patterns in distribution and relative abundance over time, without the ability to examine species-specific patterns
- Beach seines that provided estimates of nearshore area patterns in species-specific distribution and relative abundance over time
- Trawls that provided estimates of pelagic area patterns in species-specific distribution and relative abundance over time
- Crab traps that provided estimates of deep water benthic area patterns in crab-specific distribution and relative abundance over time
- Exploratory use of fyke nets, purse seines, and prawn/shrimp traps that provided some indications of species-specific fish distribution and relative abundance over time on intertidal Flora Bank, deeper water pelagic areas, and deep water benthic areas
- Stomach content analyses, used to examine salmon-specific prey items and presence.

Temporal and Spatial Distribution of Fish and Invertebrates
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Hydroacoustic fish surveys indicated that relative total fish abundance and distribution generally increased during the summer period and varied among survey areas. Total fish abundance was low during the fall, winter, and early spring in the survey region.

There were 57 fish species and 8 invertebrate species (in 90 taxonomic groupings) captured across all gear used in the surveys. The highest numbers of species and groupings were observed in catches during May through August.

Nine fish species (including five anadromous salmon), Dungeness crab, and larval fish were classified as focal species and used to examine species-specific patterns of distribution and relative abundance. The highest number of focal species was observed in May and June, associated with the presence of migratory salmon smolts. Dungeness crab, surf smelt, starry flounder, and English sole were observed in catches throughout all the months of the Program.

Salmon smolt seaward migration was observed in the beach seine and trawl catch data from the Program. Pink and chum salmon smolts were observed early in the spring (e.g., April and May) and Chinook, sockeye, and coho salmon smolts were observed later in May and in June, although it should be noted that not all areas were sampled during all times and peak migration periods may have been missed. The patterns of abundance for other species (e.g., English sole and Dungeness crab) peaked during the summer in a pattern consistent with observations from hydroacoustic survey results.

Species-specific timing and distribution in the survey region was observed in the demographics results. Juvenile Pacific herring and surf smelt were abundant in nearshore areas for much of the summer season. Mature Pacific herring were observed only in late May, corresponding to observations of small local spawning events (Appendix D). Larval fish were observed in May and June, consistent with known patterns of March spawning for both Pacific herring and anadromous eulachon.

Salmon caught in the survey region generally had low stomach fullness and higher proportions of digested prey and materials. Prey presence varied between survey areas and salmon species, but were generally dominated by copepods, decapods, cumaceans, cirripeds, terrestrial insects and amphipods.

4.0 ASSOCIATIONS BETWEEN WATER COLUMN PROPERTIES AND FISH PRESENCE

4.1 INTRODUCTION

Physical oceanographic conditions interact with biological resources (i.e., resources required by marine organisms to support their life processes) to influence species use and trophic level productivity in British Columbia coastal waters (Ware and Thomson 2005). The survey region examined during the Program experiences changing oceanographic conditions associated with seasons, tidal cycles, seasonal Skeena River discharge and, on a broader scale, coastal upwelling and downwelling, among other factors. These oceanographic conditions influence the local productivity and habitat conditions available for the marine fish community over scales of space and time (Cury et al. 2003, Shin et al. 2010).

Temperature, turbidity, dissolved oxygen, and salinity are measurable water properties that vary over time and space, and condition the seasonal physical marine environment. These water properties have the potential to influence primary productivity, as measured by chl-a, which in turn supports secondary producers, as measured by zooplankton species and abundance, and higher trophic level consumers, as measured by larval fish and marine fish relative abundance and distribution over time (Cury et al. 2005, Lucas et al. 2007, Perry 2014, Chandler et al. 2015). Productive local waters and habitats support food prey for marine fish species within physical habitats and can influence timing of life processes and abundance. For example, the outmigration of juvenile salmon typically coincides with times of peak seasonal zooplankton production (Peterman et al. 1994, Mueter et al. 2002, Pyper et al. 2005, Preikshot et al. 2010).

This section examines potential associations between water column properties and the presence of fish (Program objective 6).

4.2 METHODS

The potential associations between water column properties and the presence of fish were examined by categorizing water property and fish abundance values into different bins based on observed distribution of data, and then conducting a qualitative review to identify potential parallel patterns of change over the sampling period (see Section 2.3.2) within the survey region.

Water column properties used for this analysis included median ocean temperature (Tmp), turbidity (Turb), chl-a and total zooplankton (Zp). Salinity, conductivity and dissolved oxygen were not explicitly included because their general seasonal trends were considered to be consistent and/or related to those reflected in either turbidity or median ocean temperature (see Section 2.3.2., Figure 7, Figure 8, Figure 9, Figure 10, Figure 11, Figure 12, Figure 13).

Associations Between Water Column Properties and Fish Presence
May 20, 2016

Categorization of fish presence and water properties was carried out as follows:

1. Focal fish species (with life stages, where appropriate) were listed based on results presented in Section 3.3.2, Appendix B.3 and Appendix D.

2. Categories of relative fish abundance were defined based on:

3. Range of observed CPUE across all areas and sample periods from the most abundant focal fish species in beach seines and trawls (surf smelt; Section 3.3, and Appendix B.2) – applied to all focal species except crab

4. Range of observed CPUE (fish/ha) from hydroacoustic surveys across all areas and sample periods – applied to total fish abundance (Section 3.3.1, Appendix Appendix C)

5. Range of observed crab trap CPUE across all areas and sample periods (Section 3.3, and Appendix B.2)

6. Based on these ranges, categories were subsequently described as:
   - Abundant (**A**) – relative species / total fish abundance equal to or greater than the 75th percentile of the observed CPUE range (i.e., a CPUE of ≥ 255 for focal species, a hydroacoustic total fish abundance ≥ 7,363 fish/ha, and crab CPUE > 16.1)
   - Common (**C**) – relative species abundance between the 25th and 75th percentile of the observed CPUE range (i.e., a CPUE of 86 to 254 for focal species, a hydroacoustic total fish abundance 2,488 to 7,362 fish/ha, and crab CPUE 7.9 to 16.0)
   - Medium (**M**) – relative species abundance between the 10th to < 25th percentile of observed CPUE range (i.e., a CPUE 35 to 85 for focal species, a hydroacoustic total fish abundance 995 to 2,487 fish/ha, and crab CPUE 2.7 to 7.8)
   - Low (**L**) – relative species abundance between the 1st to < 10th percentiles of the observed CPUE range (i.e., A CPUE 4 to 34 CPUE for focal species, a hydroacoustic total fish abundance 100 to 994 fish/ha, and crab CPUE 0.3 to 2.6)
   - Infrequent or rare (**IN**) – relative species abundance < 1st percentile of the observed CPUE range (i.e., A CPUE >0 to < 4 for focal species, a hydroacoustic total fish abundance of < 100 fish/ha, and crab CPUE > 0 to < 0.3)
   - Absent (**AT**) – 0 fish or crab caught/detected
   - No observations (-) – no fish or crab samples were collected or surveys carried out

7. Water properties were categorized based on abundance or concentration from the range of observed values for each property (ocean temperature, turbidity, chl-a, zooplankton) as across the entire survey period and all survey areas:
   - High (**h**) – upper (Q3) quartile (> 75th percentile) in the range of observed water property values (Tmp ≥ 12.5°C; Turb ≥ 30.5 NTU; Chl-a ≥ 5.3 mg/L; Zp ≥ 1851/m^3)
   - Medium (**m**) – lower (Q1) to upper (Q3) quartile (between the 26th and 74th percentile) in the range of observed water property values (Tmp = 8.4 to 12.4°C; Turb = 5.9 to 30.4 NTU; Chl-a = 0.43 to 5.2 mg/L; Zp = 481 to 1850/m^3)
   - Low (l) – lower (Q1) quartile (>25th percentile) in the range of observed water property values(Tmp ≤ 8.4°C; Turb ≤ 5.9 NTU; Chl-a ≤ 0.43 mg/L; Zp ≤ 481/m^3)
   - No observations (-) - no measurement collected within the survey region

8. Pairs of categories (Fish-Water property) were assigned for each fish category and seasonal time period

9. Associations were highlighted in Table 5 if there was a possible association observed between changes in water properties and congruent changes in relative fish abundance parameters (i.e., there was an apparent parallel pattern of change across all sampling periods).

It should be noted that these categorical associations are not intended to be evidence of a causal link between the environment and fish abundance and fish distribution. Nevertheless, these results can be used to direct future surveys to monitor specific locations and timing of biophysical drivers of fish distribution, sampling intensity at those sites and at different times of year and, ultimately, for the assessment of potential project-specific effects, should the Project be built. Conversely, these results also help identify specific parameters that have potentially limited power to explain and understand spatial and temporal fish distribution, sites, or times of year, which may not be useful to monitor for the assessment of potential project-specific effects to fish distribution and could, therefore, be omitted from future sampling efforts.

4.3 RESULTS AND DISCUSSION

Observations of categorical pairs and potential association between focal fish species and, where possible, for life stages of a focal species, and water properties are presented in Table 5. Where applicable, associations were identified when category pairs seemed to change in apparent parallel patterns across all three sampling periods (with the exception of zooplankton where data were only available for two periods).

The main association revealed through this analysis, despite the use of broad categories and a coarse temporal scale, is one between total fish abundance and water temperature, chl-a, and zooplankton. Total fish abundance appears to be positively associated with higher values in temperature, chl-a, and zooplankton, with concurrent lower values in the later winter – spring, higher values in late spring – summer, and lower values again in the fall – early winter. This overall fish abundance association pattern is reflected and observed in several other groups, including juvenile Pacific herring, juvenile and adult surf smelt, larval fish, and juvenile and adult crab. Chum, coho, and sockeye smolt relative abundance appears to be positively associated with zooplankton abundance, although this has likely to do with the timing of salmon out-migration than with the abundance of zooplankton. Turbidity and corresponding seasonal patterns of salinity (Section 2.3.2), did not appear to have any associations with relative fish abundance values for the focal fish species.

Table 5 Review of Focal Fish Species Presence and Association With Seasonal Water Properties Across Seasonal Sampling Periods

Observed Focal Fish Species Presence	Seasonal Water Properties											
	Late Winter – Early Spring (Jan, Feb, Mar, Apr)				Late Spring - Summer (May, Jun, Jul, Aug)				Fall – Early Winter (Sep, Oct, Nov, Dec)			
	Tmp	Turb	Chl-a	Zp	Tmp	Turb	Chl-a	Zp	Tmp	Turb	Chl-a	Zp
Total Fish Abundance	L-m	L-m	L-m	-	A-h	A-h	A-h	A-h	C-m	C-h	C-m	C-m
Chinook Smolt	IN-m	IN-m	IN-m	-	IN-h	IN-h	IN-h	IN-h	IN-m	IN-h	IN-m	IN-m
Chum Smolt	L-m	L-m	L-m	-	L-h	L-h	L-h	L-h	IN-m	IN-h	IN-m	IN-m
Coho Smolt	AT-m	AT-m	AT-m	-	L-h	L-h	L-h	L-h	IN-m	IN-h	IN-m	IN-m
Pink Smolt	M-m	M-m	M-m	-	IN-h	IN-h	IN-h	IN-h	IN-m	IN-h	IN-m	IN-m
Sockeye Smolt	IN-m	IN-m	IN-m	-	L-h	L-h	L-h	L-h	AT-m	AT-h	AT-m	AT-m
Pacific Herring												
Eggs / Larvae	AT-m	AT-m	AT-m	-	IN-h	IN-h	IN-h	IN-h	AT-m	AT-h	AT-m	AT-m
Juvenile	L-m	L-m	L-m	-	A-h	A-h	A-h	A-h	L-m	L-h	L-m	L-m
Adult	AT-m	AT-m	AT-m	-	IN-h	IN-h	IN-h	IN-h	AT-m	AT-h	AT-m	AT-m
Surf Smelt												
Larvae	AT-m	AT-m	AT-m	-	IN-h	IN-h	IN-h	IN-h	AT-m	AT-h	AT-m	AT-m
Juvenile	C-m	C-m	C-m	-	A-h	A-h	A-h	A-h	L-m	L-h	L-m	L-m
Adult	IN-m	IN-m	IN-m	-	C-h	C-h	C-h	C-h	IN-m	IN-h	IN-m	IN-m
Larval Fish	IN-m	IN-m	IN-m	-	A-h	A-h	A-h	A-h	IN-m	IN-h	IN-m	IN-m
Starry Flounder	IN-m	IN-m	IN-m	-	IN-h	IN-h	IN-h	IN-h	IN-m	IN-h	IN-m	IN-m
English Sole	IN-m	IN-m	IN-m	-	IN-h	IN-h	IN-h	IN-h	IN-m	IN-h	IN-m	IN-m
Dungeness Crab												
Juvenile/Adult	C-m	C-m	C-m	-	A-h	A-h	A-h	A-h	M-m	M-h	M-m	M-m
Crab Moult	AT-m	AT-m	AT-m	-	L-h	L-h	L-h	L-h	AT-m	AT-h	AT-m	AT-m

Relative Fish Abundance (See Section 4.2 for category values):
A – Abundant
C – Common
M – Medium
L – Low
IN – Infrequent or rare
AT – Absent
- no observations

Water Property Concentration or Abundance
h - High, **m** – Medium, **l** – Low, - no observation

- an observed association where water temperature and relative fish abundance changed in parallel patterns
- an observed association where chl-a and relative fish abundance changed in parallel patterns
- an observed association where zooplankton and relative fish abundance changed in parallel pattern

Although this analysis is not intended to evaluate causal links or strength of potential associations, the parallel patterns of change identified as associations support the general observation that fish populations, and potentially species relative abundance, co-vary with regional warming and enhanced primary and secondary production (phytoplankton and zooplankton abundance, respectively) during late spring and summer periods. Our findings are consistent with those of Ware and Thomson (2005,) who suggested that British Columbia coastal marine fish abundance is often controlled by bottom-up trophic interactions driven by locally enhanced warming, nutrients, and phytoplankton and zooplankton abundance. Ware and Thomson (2005) suggest that fish biomass and primary productivity in Chatham Sound and Hecate Strait marine ecosystems are positively related to bottom-up driven nutrients potentially channeled through both pelagic and benthic trophic levels. The late spring and summer pattern of enhanced local chl-a observed in the survey region is consistent with the timing of enhanced Skeena River discharge (freshet), particularly in May through October, which has a strong influence on local water properties (temperature, oxygen, salinity, transparency, nutrients) in southern and central Chatham Sound (Trites 1956; Birch et al. 1985). The observations of locally enhanced chl-a concentrations in the survey region from spring to summer are also supported by results from a remote sensing analyses of monthly sea surface data between 2004 and 2014, which demonstrate a positive relationship between Skeena River discharge, sea surface temperature, water clarity and turbidity, and primary production (Stantec 2015).

Overall, this analysis suggests that temperature, primary production (chl-a), and zooplankton may be potential drivers of fish distribution and presence in this study area and that they may warrant additional analysis using site specific marine fish program results. Results also suggest that these environmental factors should be carefully considered when designing and interpreting any potential monitoring in the future.

5.0 PATTERNS OF FISH HABITAT USE IN THE SURVEY REGION

5.1 INTRODUCTION

The following methods and results use the Program's habitat-related presence and relative fish abundance data to interpret patterns of focal fish species habitat presence over the sampling period within each survey area. For the purpose of this report, habitat use is defined as fish presence in any given area over time, with no inference on any potentially associated fish behaviour (selection/preference) and habitat availability (quality).

Observations of presence or absence of a fish species in a specific habitat or survey area are not intended to examine or indicate the ability of a focal species or entire fish population to support and sustain itself within a habitat (Schultz and Ludwig 2005). Additional, more detailed spatial and temporal sampling, fish species age class, stomach content, behaviour, sex ratio, and sexual maturity data would be needed to more fully examine patterns of fish habitat use, including habitat selection, preference and availability.

This section examines potential patterns of habitat use by total fish and focal species in the survey region (Program objective 7).

5.2 METHODS

Following the approach detailed in Section 5, we examined the data for associations between categories of fish presence (Absent, Infrequent, Low, Medium, Common, Abundant) in each survey area across seasonal time periods. As noted in Section 4, categorical fish habitat presence is not intended to be evidence of a causal link between habitats or the biophysical attributes that comprise habitat conditions, and fish abundance and distribution. These results can, however, be used to identify and monitor specific locations, habitats, and timing of fish distribution, sampling intensity at habitats and at different times of year.

5.3 RESULTS AND DISCUSSION

Observations of categorical fish presence derived for total fish abundance and for focal species, across survey areas and seasonal time periods, are presented in Table 6.

Patterns of Fish Habitat Use in the Survey region
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Table 6 Review of Focal Fish Species Presence Across Survey Area and Seasonal Time Periods

Fish Presence	Survey Areas / Seasonal Time Period (Hydroacoustic Density)																							
	A			B			C			D			E			F			G			H-I		
	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F
Total Fish Abundance	\	L	IN	IN	A	L	\	M	M	\	L	IN	\	M	M	\	L	IN	\	IN	IN	\	A	A
Survey Areas / Seasonal Time Period (Beach Seine and Trawl CPUE)																								
Observed Focal Fish Species Presence	A (Beach Seine)			B (Beach Seine)			C (Beach Seine)			A,B,C,D,E,F (A-F) (Trawl)			G (Beach Seine)			G (Trawl)			H-I (Beach Seine)			H-I (Trawl)		
	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F
Chinook Smolt	AT	IN	AT	AT	IN	AT	\	IN	IN	AT	IN	AT	IN	IN	AT	IN	IN	AT	IN	IN	IN	AT	IN	IN
Chum Smolt	IN	IN	AT	IN	L	IN	\	IN	AT	AT	IN	AT	AT	AT	AT	AT	AT	AT	IN	IN	AT	AT	AT	AT
Coho Smolt	AT	IN	AT	AT	IN	IN	\	IN	AT	AT	IN	AT	AT	IN	AT	AT	AT	AT	AT	IN	AT	AT	IN	AT
Pink Smolt	M	IN	AT	AT	IN	AT	\	IN	IN	IN	IN	AT	IN	IN	AT	AT	AT	AT	IN	IN	IN	AT	AT	AT
Sockeye Smolt	AT	IN	AT	AT	IN	AT	\	IN	IN	AT	L	AT	IN	IN	AT	AT	IN	AT	AT	IN	IN	AT	IN	AT
Pacific Herring																								
Eggs / Larvae	AT	IN	AT	AT	IN	AT	\	IN	AT	IN	L	AT	\	\	AT	AT	\	AT	\	\	\	\	\	\
Juvenile	L	L	L	IN	IN	AT	\	IN	IN	IN	A	AT	AT	IN	IN	AT	AT	AT	IN	L	AT	AT	A	IN
Adult	AT	AT	AT	AT	AT	AT	\	IN	AT	AT	L	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
Surf Smelt																								
Larvae	AT	IN	AT	AT	IN	AT	\	IN	AT	IN	L	AT	\	\	AT	AT	\	AT	\	\	\	\	\	\
Juvenile	A	C	L	C	A	IN	\	L	IN	L	C	IN	AT	L	L	AT	IN	AT	A	IN	A	AT	M	L
Adult	IN	L	AT	IN	IN	AT	\	C	AT	AT	L	AT	AT	L	AT	AT	IN	AT	AT	L	IN	AT	IN	AT
Larval Fish	AT	IN	AT	IN	IN	AT	\	IN	IN	IN	A	AT	IN	IN	AT	AT	L	AT	IN	IN	IN	IN	A	L
Starry Flounder	AT	IN	AT	AT	IN	AT	\	IN	IN	AT	IN	AT	IN	IN	AT	AT	IN	AT	IN	IN	IN	AT	IN	AT
English Sole	AT	IN	AT	AT	IN	AT	\	IN	IN	AT	IN	AT	IN	IN	AT	AT	AT	AT	IN	IN	IN	AT	IN	AT
Dungeness Crab																								
Juvenile/Adult	\	\	\	\	\	\	\	\	\	C	A	M	\	\	\	\	\	\	\	\	\	\	\	\
Moult	AT	L	AT	AT	AT	AT	\	AT	AT	AT	L	AT	AT	AT	AT	\	\	\	AT	AT	AT	\	\	\

Relative Fish Abundance (See Section 4.2 for category values and Appendix B for data)

A	Abundant - relative species total fish abundance ≥ than the 75th percentile of the observed CPUE range
C	Common - relative species abundance between the 25th and 75th percentile of the observed CPUE range
M	Medium - relative species abundance between the 10th to < 25th percentile of observed CPUE range5
L	Low - relative species abundance between the 1st to < 10th percentiles of the observed CPUE range6
IN	Infrequent or rare - relative species abundance < 1st percentile of the observed CPUE range
AT	Absent - 0 fish or crab caught/detected
\	no observations - no fish or crab samples were collected or surveys carried out

Seasonal Time Period

W	late winter - early spring (Jan, Feb, Mar, Apr)
S	late spring – summer (May, Jun, Jul, Aug)
F	fall–early winter (Sep, Oct, Nov, Dec)

Patterns of Fish Habitat Use in the Survey region
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Total observed fish abundance was highest in late spring - summer in survey area B, but overall, numbers appeared to be higher in southern survey areas (H and I) and in survey areas C and E, compared to other survey areas during all periods sampled. Observed total fish presence was highest in late spring - summer throughout the study area, with a decrease into fall - early winter in survey areas A, B, D, and F, but remaining at similar levels in areas C, E, G, and H-I. This overall total fish abundance pattern is reflected and observed in several abundant and common focal species in survey areas A, B, C, A-F, G and H-I, where comparison can be made, and included Abundant and Common relative abundance for juvenile and adult surf smelt, juvenile Pacific herring, larval fish, and juvenile and adult crab. Compared to surf smelt, focal fish species abundance was Low in most areas and time periods.

Surf smelt were observed with the highest relative abundance among focal fish species in beach seine and trawl catches in all survey areas during the late winter - early spring and late spring - summer, with the exception of low abundance observed in survey area G. Pacific herring and larval fish were observed with the highest relative abundance in trawl catches during the late spring - summer in survey areas A-F and H-I. This larval fish occurrence is consistent with patterns of spring and summer herring, eulachon, and smelt spawning events and observations of larval fish distribution in offshore pelagic areas for Pacific herring (Haegele et al. 1979, DFO 1999, DFO 2015, Appendix D, Section 3.3.2.2.1), anadromous eulachon (Hay and McCarter 2000, Section 3.3.2.2.10), and surf smelt (Therriault et al. 2002, Section 3.3.2.2.2).

Juvenile and adult Dungeness crab were only sampled using crab traps in offshore survey areas A through F. Incidental sightings of moulted crab shells and soft-shelled crab moults were made opportunistically throughout the survey region. Crabs had a high level of relative abundance during late winter - early spring and late spring - summer sampling periods. Crabs had a lower habitat presence in fall - early winter. Soft-shelled crab moults and shells were observed in both offshore survey areas A-F and in nearshore survey area A during the late spring - summer sampling period (Section 3.3.3.1.11, Appendix B.3)

Survey areas with higher total fish abundance in both late spring - summer and fall - early winter sampling periods were characterized by more channels and slopes with a stronger influence of tidal mixing and moderate to strong freshwater outflow. Smaller forage fish species, including juvenile surf smelt and Pacific herring focal species and early migrating pink and chum salmon, were observed in survey areas A, B, H-I and combined survey area A-F respectively, characterized as both shallow and deeper soft-sediment habitats.

As discussed in Section 5.3, total fish and potentially species relative abundance appeared to be associated with regional warming and enhanced primary and secondary production (phytoplankton and zooplankton abundance respectively) during late spring - summer. The observations of patterns and associations with seasonal relative fish abundance in the survey areas, is consistent with the suggested patterns of seasonal nutrient-driven enhanced production (Perry et al. 1983, Ware and Thomson 2005).

6.0 REVIEW OF PROJECT OBJECTIVES

This report is organized around seven specific objectives to review and present December 2014 to February 2016 data collected for the Marine Fish Program. The seven objectives have been addressed in the following manner:

1. Describe the marine biophysical environment (i.e., water properties, zooplankton) in the vicinity of the Project's marine components and survey region.

   The methods, results and discussion for marine biophysical environment were presented for the survey region and in the nine survey areas in Sections 2.3.1 (Survey Region) and Section 2.3.2 (Survey Areas) respectively. The biophysical attributes were presented for each of the survey areas sampled across monthly sample periods.

2. Identify fish and marine invertebrates present in the survey region.

   The methods, results, and discussion for observed fish and marine invertebrates were presented for the survey region and the nine survey areas in Section 3.3.2.1 (Fish and Invertebrate Species Observed).

3. Identify spatial patterns of distribution, relative abundance, and biological characteristics for fish and marine invertebrates in the survey region

   The methods, results, and discussion were presented in Section 3.3.1 (General Temporal Patterns in Distribution and Relative Abundance of Fish), Section 3.3.2 (Distribution and Relative Abundance of Focal Fish Species Over Time), and Section 3.3.3 (Demographics), including Appendix B.2(Focal Species Catch Per Unit Effort), Appendix B.3 (Focal Species Demographics), Appendix C (Hydroacoustic Analysis Segments), Appendix D (Marine Fish Survey Incidental Sightings), and Appendix E (Exploratory Sample Methods and Results).

4. Identify temporal patterns of distribution, relative abundance and biological characteristics of fish and marine invertebrates in the survey region

   The methods, results, and discussion were presented in Section 3.3.1 (General Temporal Patterns in Distribution and Relative Abundance of Fish), Section 3.3.2 (Distribution and Relative Abundance of Focal Fish Species Over Time), Section 3.2.3 (Demographics) and Appendix B.

5. Identify salmonid prey items through examination of stomach contents

   The methods, results, and discussion were presented in Section 3.3.3.2 (Salmon Smolt Stomach Contents).

6. Examine any associations between water column properties and the presence of fish

   The methods, results, and discussion were presented in Section 4.0 (Associations between Water Column Properties and Fish Presence).

7. Interpret the patterns of select fish species' habitat use in the survey region

   The methods, results, and discussion were presented in Section 5.0 (Patterns of Fish Habitat Use in the Survey region).

7.0 CLOSURE

We trust that the above information meets with PNW LNG requirements. Should you have any further questions or require further information, please contact Mark Johannes at (604) 412-3098.

STANTEC CONSULTING LTD.

ORIGINAL SIGNED BY

Mark Johannes, Ph.D. R.P.Bio.
Associate
Phone: (604) 412-3098
Mark.Johannes@stantec.com

Reviewed by:

ORIGINAL SIGNED BY

Tim Edgell, Ph.D., R.P.Bio.
Senior Associate
Phone: (250) 655-5396
Tim.Edgell@stantec.com

ORIGINAL SIGNED BY

Karen Munro, B.Sc., M.Sc., R.P.Bio.
Principal
Phone: (604) 678-3085
Karen.Munro@stantec.com

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APPENDIX A
SURVEY SCHEDULE AND EFFORT

Appendix A SURVEY SCHEDULE AND EFFORT

Table A-1 Marine Fish and Fish Habitat Survey Effort Summary

Survey Type	Survey Number	Date	Effort (Days)	Area Surveyed
Daytime Marine Fish and Fish Habitat Survey	Daytime-01	December 16–20, 2014	5	A to F
	Daytime-02	January 27–31, 2015	5	A to F
	Daytime-03	February 17–22, 2015	6	A to F
	Daytime-04	March 20–24, 2015	5	A to F
	Daytime-05	April 23–29, 2015	7	A to F
	Daytime-06	May 18–23, 2015	6	A to F
	Daytime-07	June 7–14, 2015	8	A to I
	Daytime-08	June 16–22, 2015	7	A to I
	Daytime-09	July 2–8, 2015	7	A to I
	Daytime-10	July 16–23, 2015	8	A to I
	Daytime-11	August 12–19, 2015	8	A to I
	Daytime-12	September 14–20, 2015	7	A to I
	Daytime-13	October 29–November 4, 2015	7	A to I
	Daytime-14	November 26–December 3, 2015	8	A to I
	Daytime-15	December 9–12, 2015	4	A to I
	Daytime-16	January 17–24, 2016	8	A to I
	Daytime-17	February 11–17 , 2016	7	A to I
Nighttime Marine Fish and Fish Habitat Survey	Nighttime-01	April 30–May 4, 2015	5	A to F
	Nighttime-02	May 12–15, 2015	4	A to F
	Nighttime-03	May 25–30, 2015	6	A to F
	Nighttime-04	June 3–8, 2015	6	A to F
	Nighttime-05	June 9–16, 2015	8	A to G
	Nighttime-06	June 16–23, 2015	8	A to G
	Nighttime-07	June 24–July 1, 2015	8	A to G
	Nighttime-08	July 1–9, 2015	9	A to G
	Nighttime-09	July 10–15, 2015	6	A to G
Total			**173**	

NOTE:
Effort (days) does not include weather days

Table A-2 Fish and Fish Habitat Total Sample Effort (December 2014 – January 2016)

Survey Number	Effort (Days)	Tucker Trawl 1 x 1 m	Tucker Trawl 2 x 2 m	Otter Trawl 5 x 5 m	Hydroacoustic Passes	Beach Seine 12 x 1.5 m	Beach Seine 22 x 3 m	Purse Seine 50 x 6 m	Fyke Net 15 x 1 m	Crab Traps	Zooplankton
Daytime-01	5	0	0	0	0	5	4	0	0	25	0
Daytime-02	5	5	0	0	5	14	4	0	0	24	0
Daytime-03	6	0	6	0	6	22	0	0	0	22	0
Daytime-04	5	0	5	0	5	22	0	0	4	21	0
Daytime-05	7	0	1	4	1	15	0	0	2	22	0
Daytime-06	6	0	10	0	10	16	6	0	3	23	0
Daytime-07	8	0	15	0	0*	39	0	0	0	18	0
Daytime-08	7	0	18	3	0*	41	3	0	1	17	0
Daytime-09	7	0	20	0	20	42	3	0	0	18	0
Daytime-10	8	0	15	0	15	43	3	0	0	18	0
Daytime-11	8	0	15	0	15	41	3	0	0	18	0
Daytime-12	7	0	18	0	18	28	3	0	0	14	0
Daytime-13	7	0	18	0	18	14	0	0	0	13	0
Daytime-14	8	0	16	0	16	20	0	0	0	14	0
Daytime-15	4	0	17	0	17	10	0	0	0	14	0
Daytime-16	8	0	17	0	17	12	0	0	0	14	0
Daytime-17	7	0	17	0	17	29	0	0	0	14	0
Nighttime-01	5	0	14	0	14	0	0	0	1	0	0
Nighttime-02	4	0	19	0	19	0	0	0	3	0	19
Nighttime-03	6	0	34	0	34	0	0	0	3	0	18
Nighttime-04	6	0	33	0	33	0	0	0	0	0	37

Table A-2 Fish and Fish Habitat Total Sample Effort (December 2014 – January 2016)

Survey Number	Effort (Days)	Tucker Trawl 1 x 1 m	Tucker Trawl 2 x 2 m	Otter Trawl 5 x 5 m	Hydroacoustic Passes	Beach Seine 12 x 1.5 m	Beach Seine 22 x 3 m	Purse Seine 50 x 6 m	Fyke Net 15 x 1 m	Crab Traps	Zooplankton
Nighttime-05	8	0	37	0	0*	0	0	0	2	0	37
Nighttime-06	8	0	55	0	0*	0	0	7	3	0	37
Nighttime-07	8	0	48	0	48	0	0	15	4	0	37
Nighttime-08	9	0	41	0	41	0	0	24	0	0	37
Nighttime-09	6	0	47	0	47	0	0	10	0	0	37
Total	**173**	**5**	**536**	**7**	**416**	**413**	**29**	**56**	**26**	**309**	**259**

NOTES:

* Indicates a period during which the hydroacoustics device was being repaired and no acoustic surveys were completed. Trawl and hydroacoustic surveys were otherwise paired; hydroacoustic passes were inferred from trawl data.

APPENDIX B
DATA SUMMARIES

Appendix B DATA SUMMARIES

B.1 ZOOPLANKTON RELATIVE ABUNDANCE

Table B-1 Median Relative Abundance (%) of Organisms for All Zooplankton Hauls Combined (May to December 2015; n = 176)

Taxonomic Group	Uncorrected[a] Median % Relative Abundance (Inter-Quartile Range)						
	All Areas Combined	A	B	C	D	E	F
Crustacea–Copepoda	56.2 (43.3–72.8)	53.3 (43.7-69.7)	50.5 (37.6-65.7)	53.3 (40.2-73.3)	60.3 (45.8-72.8)	66.7 (53.1-79.4)	56.9 (36.6-77)
Crustacea–Cirripedia	15.9 (8.5-26.8)	17.1 (9.5-26.7)	27.5 (11.2-36.5)	16.9 (5.5-24.3)	14.8 (8.8-23.1)	12.5 (8.4-15.1)	15.8 (4.8-20.7)
Crustacea–Cladocera	3.0 (0–8.2)	3.3 (0.6-7.8)	3.7 (0-9.9)	5 (0-7.4)	2.5 (0-8.2)	1.7 (0.4-3.7)	4.2 (0.1-10.6)
Appendicularia	1.6 (0.6–5.5)	1.7 (0.8-6.6)	1.7 (0.8-4.1)	2.1 (0.6-2.8)	1.4 (0.4-5.4)	2 (0.6-8)	2.1 (0.6-6.1)
Crustacea–Eumalacostraca	1.4 (0.4-3.2)	1.5 (0.4-3.1)	1 (0.5-2)	1.3 (0.2-2.6)	1.3 (0.4-4.7)	1.8 (0.5-3.5)	0.8 (0.5-3.2)
Crustacea–Decapoda	0.9 (0.4–2.1)	0.8 (0.4-2.1)	1.8 (0.4-4)	0.5 (0-1.9)	0.8 (0.4-1.5)	0.9 (0.5-1.7)	0.5 (0.4-1.5)
Mollusca–Gastropoda	0.8 (0.3–1.7)	1.7 (0.6-3)	0.7 (0.4-1.3)	0.4 (0-0.5)	0.6 (0-1.5)	1 (0.4-1.6)	0.4 (0-1)
Crustacea	0.5 (0–1.4)	0.6 (0-1.4)	0.5 (0-1.4)	0.8 (0-1.9)	0.5 (0-1.2)	0.5 (0-1.3)	0 (0-0.6)
Cnidaria	0.5 (0–1.2)	0.5 (0-1.1)	0.9 (0-2.3)	0.5 (0.2-1.9)	0 (0-0.8)	0.4 (0-0.9)	0.5 (0.1-1)
Chaetognatha	0 (0–0.5)	0.2 (0-0.5)	0 (0-0.3)	0 (0-0.7)	0 (0-0.5)	0.3 (0-0.5)	0 (0-0.4)
Polychaeta	0 (0–0.5)	0 (0-0.5)	0.4 (0-0.8)	0 (0-0.4)	0 (0-0.4)	0.2 (0-0.4)	0 (0-0.4)
Cnidaria–Hydrozoa	0 (0–0.4)	0 (0-0.5)	0 (0-0)	0 (0-3.8)	0 (0-0.4)	0 (0-0.4)	0 (0-0.5)
Unknown	0 (0–0.4)	0 (0-0.6)	0 (0–0)	0 (0–0)	0 (0–0)	0.1 (0-1.9)	0 (0-0.4)
Unidentified benthic organism	0 (0–0.3)	0 (0-0.1)	0 (0-0.6)	0 (0–0)	0 (0-0.4)	0 (0-0.3)	0 (0-0.2)
Pisces	0 (0–0.1)	0 (0-0.1)	0 (0-0.1)	0 (0–0)	0 (0–0.2)	0 (0-0.1)	0 (0-0.1)

Table B-1 Median Relative Abundance (%) of Organisms for All Zooplankton Hauls Combined (May to December 2015; n = 176)

Taxonomic Group	Uncorrected[a] Median % Relative Abundance (Inter-Quartile Range)						
	All Areas Combined	A	B	C	D	E	F
Bryozoa	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Cnidaria–Scyphozoa	0 (0–0)	0 (0-0.5)	0 (0-0)	0 (0-3.8)	0 (0-0.4)	0 (0-0.4)	0 (0-0.5)
Crustacea–Amphipoda	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Crustacea–Isopoda	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0-0.3)	0 (0–0)
Crustacea–Mysidacea	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Crustacea–Ostracoda	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0-0.3)	0 (0–0)
Ctenophore	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Echinodermata–Asteroidea	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Echinodermata–Echinoidea	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Echinodermata–Holothuroidea	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Echinodermata–Ophiuroidea	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0-0.2)
Echiura	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Unidentified terrestrial organism	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Mollusca–Bivalvia	0 (0–0)	0 (0-0.3)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Nemertea	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Phoronida	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)

Table B-1 Median Relative Abundance (%) of Organisms for All Zooplankton Hauls Combined (May to December 2015; n = 176)

Taxonomic Group	Uncorrected[a] Median % Relative Abundance (Inter-Quartile Range)						
	All Areas Combined	A	B	C	D	E	F
Polychaeta–Errantia	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Polychaeta–Sedentaria	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Sipuncula	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Ascidiacea	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)

NOTE:

[a] Values labelled as uncorrected because they were calculated by treating all sample sites as independent samples rather than first weighting values by sampling areas.

B.2 FOCAL SPECIES CATCH PER UNIT EFFORT

Table B-2 CPUE (Fish per 100 m^2) Summary Statistics for Pacific Herring in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0	0	0	0	0	0	2,969
A	Feb-15	0	0	0	0.66	7.72	0.97	2.17	62	7,914
A	Mar-15	0	0	0	0.51	1.34	0.31	0.45	19	7,914
A	Apr-15	0	0	0	0	0.19	0.03	0.08	1	3,037
A	May-15	0	0	0	0	0.22	0.04	0.08	4	4,860
A	Jun-15	0	0	0	0	0.22	0.04	0.09	4	7,104
A	Jul-15	0	0	0.5	2.3	27.53	3.86	7.88	454	5,780
A	Aug-15	0	0	0.19	0.96	11.44	1.52	3.32	88	5,780
A	Sep-15	0	0	0	0	0	0	0	0	2,018
A	Oct-15	0	0	0	0	0	0	0	0	1,505
A	Nov-15	0	0	0	0.41	6.09	0.87	2.12	34	3,998
A	Jan-16	0	0	0	0	0	0	0	0	2,018
A	Feb-16	0	0	0	0.2	3.47	0.58	1.2	23	4,401
B	Dec-14	0	0	0	0	3.79	0.42	1.26	11	2,397
B	Jan-15	0	0	0	0	7.1	0.84	2.35	12	2,397
B	Feb-15	0.47	0.89	3.03	8.97	44.39	10.83	16.33	213	2,397
B	Mar-15	0	0	0	0.22	0.53	0.13	0.2	3	2,397
B	Apr-15	0	0	0	0.41	1.48	0.26	0.49	6	2,397
B	May-15	0	0	0	0.21	1.84	0.33	0.68	8	2,210
B	Jun-15	0	0	0	0	0	0	0	0	2,397
B	Jul-15	0	0	0	0	0.22	0.01	0.05	1	2,397
B	Aug-15	0	0	0	0	0	0	0	0	2,397
B	Sep-15	0	0	0	0	0	0	0	0	1,099
C	May-15	0	0.13	0.26	0.39	0.51	0.26	0.36	9	1,498
C	Jun-15	0.58	0.61	0.64	1.02	1.39	0.87	0.45	25	3,228
C	Jul-15	0	0	0.17	0.55	0.9	0.31	0.39	18	3,228
C	Aug-15	0	0	0	0	0	0	0	0	3,228
C	Sep-15	0	0	0	0.03	0.06	0.02	0.03	1	3,228
G	Jun-15	0	0	0	0	0	0	0	0	3,209
G	Jul-15	0	0	0	0	3.47	0.2	0.79	12	3,299

Table B-2 CPUE (Fish per 100 m^2) Summary Statistics for Pacific Herring in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Aug-15	0	0	0	0	0	0	0	0	3,209
G	Sep-15	0	0	0	0	0	0	0	0	3,209
G	Nov-15	0	0	0	0.38	1.5	0.38	0.75	6	1,633
G	Feb-16	0	0	0	0	0	0	0	0	3,209
H	Jun-15	0	0	0	0	0	0	0	0	2,644
H	Jul-15	0	0	0	1.01	4.33	0.75	1.27	41	2,644
H	Aug-15	0	0.15	2.03	6.55	11.39	3.83	4.49	114	2,644
H	Sep-15	0	0	0	0	0	0	0	0	2,644
H	Nov-15	0	0	0	0	0	0	0	0	2,644
H	Dec-15	0	0	0	0	0	0	0	0	2,254
H	Jan-16	0	0	0	0.06	0.23	0.06	0.12	1	1,485
H	Feb-16	0	0	0	0	0	0	0	0	2,644
I	Jun-15	0	0	0	0	0	0	0	0	1,614
I	Jul-15	0	0	0	0	0	0	0	8	1,614
I	Aug-15	0	0	0	0	0	0	0	0	1,614
I	Sep-15	0	0	0	0	0	0	0	0	1,614
I	Nov-15	0	0	0	0	0	0	0	0	1,614
I	Dec-15	0	0	0	0	0	0	0	0	1,614
I	Jan-16	0	0	0	0	0	0	0	0	1,614
I	Feb-16	0	0	0	0	0	0	0	0	1,614

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m^2 area fished. Individuals caught and area seined is the monthly totals.

Table B-3 CPUE (Fish per 15 minutes) Summary Statistics for Pacific Herring in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0	0	0	0	0	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0	0	0	0	0	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	0.1	3.35	12.65	15.75	6.24	6.94	86	247
Day	A, B, C, D, E, F	Jun-15	0	0	0	0	854.38	65.72	236.96	1,367	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	0.5	23.57	2.02	6.49	85	448
Day	A, B, C, D, E, F	Aug-15	0	0	0	0	0	0	0	0	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0	0	0	0	0	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	0	0	0	0	160
Day	G	Jun-15	0	0	0	0	0	0	0	0	131
Day	G	Jul-15	0	0	0	0	0	0	0	0	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108

Table B-3 CPUE (Fish per 15 minutes) Summary Statistics for Pacific Herring in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	G	Feb-16	0	0	0	0	0	0	0	0	150
Day	H	Jun-15	0	0	0	0	0	0	0	0	107
Day	H	Jul-15	0	11.97	30	65.82	121.76	43.91	46.82	343	125
Day	H	Aug-15	0.83	1.02	1.2	8.68	16.15	6.06	8.74	17	56
Day	H	Sep-15	0.71	0.8	0.88	1.94	3	1.53	1.27	5	53
Day	H	Nov-15	0	0	0	0	0	0	0	0	103
Day	H	Dec-15	0	0	0	0	0	0	0	0	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0	0	0	0	0	55
Day	I	Jun-15	0	0	0	0.29	0.6	0.17	0.29	2	175
Day	I	Jul-15	0	3.23	12.95	96.48	810	146.05	296.37	624	131
Day	I	Aug-15	0	0	0	0.21	0.43	0.14	0.25	1	94
Day	I	Sep-15	0	0	0	0.22	0.44	0.15	0.25	1	118
Day	I	Nov-15	0	0	0	0	0	0	0	0	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0	0	0	0	0	49
Night	A, B, C, D, E, F	Apr-15	0	0	0	0	0.29	0.05	0.12	1	124
Night	A, B, C, D, E, F	May-15	0	0	0	0	9.38	0.58	1.57	39	551

Table B-3 CPUE (Fish per 15 minutes) Summary Statistics for Pacific Herring in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	A, B, C, D, E, F	Jun-15	0	0	0	0	20	0.48	1.89	58	493
Night	A, B, C, D, E, F	Jul-15	0	0	0	0.75	286.88	4.57	34.5	179	229
Night	G	Jun-15	0	0	0	0	0.68	0.02	0.12	1	281
Night	G	Jul-15	0	0	0	0	0	0	0	0	173

NOTE:

Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-4 CPUE (Fish per 100 m^2) Summary Statistics for Surf Smelt in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0.21	7.62	18.69	4.88	7.93	180	2,969
A	Feb-15	0	0.6	1.32	6.74	59.79	10.61	18.72	591	7,914
A	Mar-15	0	0.15	14.83	42.58	83.6	24.94	27.5	1,458	7,914
A	Apr-15	0	18.06	61.62	94.38	169.65	66.95	63.63	1,731	3,037
A	May-15	0.17	0.5	3.76	10.04	112.29	25.79	44.13	1,120	4,860
A	Jun-15	0	0	0.2	0.35	2.23	0.52	0.78	42	7,104
A	Jul-15	0	0	0.36	2.9	27.04	4.13	7.88	438	5,780
A	Aug-15	0	0	0.28	10.11	22.74	5.4	7.9	294	5,780
A	Sep-15	0	0	0	0.1	0.4	0.1	0.2	2	2,018
A	Oct-15	0	0.1	0.2	0.41	0.62	0.27	0.32	4	1,505
A	Nov-15	1.91	3.57	4.75	6.62	7.28	4.81	2.13	192	3,998
A	Jan-16	0.19	0.2	0.29	0.6	1.25	0.51	0.5	10	2,018
A	Feb-16	0	0	0	0	0	0	0	0	4,401
B	Dec-14	0	0.41	1.4	2.67	4.06	1.6	1.58	39	2,397
B	Jan-15	0	1.1	6.42	11.44	163.8	28.1	54	806	2,397
B	Feb-15	0	0.74	5.01	15.06	135.86	26.24	46.04	453	2,397
B	Mar-15	0	0	0.55	21.4	26.74	9.81	11.74	253	2,397
B	Apr-15	0	0	0	0.34	45.2	5.24	14.99	74	2,397
B	May-15	0	0	0	3.82	13.65	3.29	5.73	84	2,210
B	Jun-15	0	0	0	0	345.2	20.43	83.69	1,006	2,397
B	Jul-15	0	0	0	0	0	0	0	0	2,397
B	Aug-15	0	0	0	0	0	0	0	0	2,397
B	Sep-15	0	0	0	0	0	0	0	0	1,099
C	May-15	4.72	5.63	6.54	7.45	8.36	6.54	2.58	109	1,498
C	Jun-15	0.26	0.42	0.58	0.84	1.11	0.65	0.43	20	3,228
C	Jul-15	0	0	0	0.49	1.03	0.29	0.45	15	3,228
C	Aug-15	0	0.06	0.12	2.95	5.79	1.97	3.31	47	3,228
C	Sep-15	0	0	0	0.07	0.14	0.05	0.08	1	3,228
G	Jun-15	0	0	0	1.9	14.99	2.82	5.1	155	3,209
G	Jul-15	0	0	0	0	2.64	0.21	0.63	15	3,299
G	Aug-15	0	0	0	4.1	6.01	1.84	2.49	56	3,209
G	Sep-15	0	0	0	0	1.26	0.16	0.45	4	3,209

Table B-4 CPUE (Fish per 100 m^2) Summary Statistics for Surf Smelt in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Nov-15	0.75	3.33	15.3	26.56	27.05	14.6	14.07	225	1,633
G	Feb-16	0	0	0	0	0	0	0	0	3,209
H	Jun-15	0	0.29	0.57	1.26	18.46	2.52	5.29	121	2,644
H	Jul-15	0	0.37	0.8	2.78	6.12	1.71	2.02	87	2,644
H	Aug-15	0	0	0	0.23	0.51	0.14	0.24	4	2,644
H	Sep-15	0	0	0	0.64	1.84	0.45	0.78	11	2,644
H	Nov-15	0	0	0.23	2.03	6.61	1.44	2.16	65	2,644
H	Dec-15	1.13	2.25	3.34	9.98	93.96	19.31	36.78	476	2,254
H	Jan-16	13.25	15.9	68.73	148.39	231.54	95.56	103.44	1,624	1,485
H	Feb-16	0	0	0	0.16	0.65	0.14	0.25	3	2,644
I	Jun-15	0	0	0	0.23	0.26	0.08	0.12	3	1,614
I	Jul-15	0	0	0.25	0.57	3.07	0.61	1.03	19	1,614
I	Aug-15	0	0.17	0.49	0.75	0.77	0.44	0.38	7	1,614
I	Sep-15	0	0	0	0.06	0.25	0.06	0.13	1	1,614
I	Nov-15	2.82	8.21	14.01	19.2	22.78	13.4	8.81	218	1,614
I	Dec-15	0	0	0.36	0.57	1.5	0.44	0.51	14	1,614
I	Jan-16	0	0	0.13	1.35	4.61	1.22	2.27	19	1,614
I	Feb-16	0	0	0	0	0	0	0	0	1,614

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m^2 area fished. Individuals caught and area seined are the monthly totals.

Table B-5 CPUE (Fish per 15 minutes) Summary Statistics for Surf Smelt in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0	0	0	0	0	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0.48	0.48	0.19	0.26	4	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	1.3	4.69	9.5	20.29	6.72	6.73	84	247
Day	A, B, C, D, E, F	Jun-15	0	0	0.47	0.77	8.75	1.06	2.35	26	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	0	1.53	0.14	0.42	6	448
Day	A, B, C, D, E, F	Aug-15	0	0	0	0	0.71	0.14	0.32	1	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0.4	0.48	0.18	0.23	3	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	0	0	0	0	160
Day	G	Jun-15	0	0	0	0	2	0.29	0.76	4	131
Day	G	Jul-15	0	0	0	0	0	0	0	0	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108

Table B-5 CPUE (Fish per 15 minutes) Summary Statistics for Surf Smelt in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	G	Feb-16	0	0	0	0	0	0	0	0	150
Day	H	Jun-15	0	0.54	3.07	32.94	71.43	20.03	30.1	195	107
Day	H	Jul-15	0	0	1.07	2.29	7.17	1.83	2.59	17	125
Day	H	Aug-15	0	0.42	0.83	3.88	6.92	2.59	3.78	7	56
Day	H	Sep-15	7.14	7.54	7.94	11.97	16	10.36	4.9	35	53
Day	H	Nov-15	0	0	0.79	2.42	13.85	3.41	5.92	18	103
Day	H	Dec-15	0	0	0	0.42	1.67	0.42	0.83	2	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0	0	0	0	0	55
Day	I	Jun-15	0	0	0.58	1.54	7.14	1.54	2.58	17	175
Day	I	Jul-15	0	0	0	3	9.81	2.26	4.01	19	131
Day	I	Aug-15	0	0	0	0	0	0	0	0	94
Day	I	Sep-15	0	0	0	0.28	0.56	0.19	0.32	1	118
Day	I	Nov-15	0	0	0	0.25	1	0.25	0.5	2	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0	0	0	0	0	49
Night	A, B, C, D, E, F	Apr-15	0	0	0.39	2.7	4.12	1.37	1.86	17	124
Night	A, B, C, D, E, F	May-15	0	0	0.88	3	18.75	2.38	3.89	161	551
Night	A, B, C, D, E, F	Jun-15	0	0	0	1.5	138.33	3.37	12.88	518	493

Table B-5 CPUE (Fish per 15 minutes) Summary Statistics for Surf Smelt in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	A, B, C, D, E, F	Jul-15	0	0	0	1.73	27.5	2.1	4.76	130	229
Night	G	Jun-15	0	0	0	0	4.29	0.2	0.8	6	281
Night	G	Jul-15	0	0	0	0	0.62	0.03	0.14	1	173

NOTE:

Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-6 CPUE (Fish per 100 m^2) Summary Statistics Chinook Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0	0	0	0	0	0	2,969
A	Feb-15	0	0	0	0	0	0	0	0	7,914
A	Mar-15	0	0	0	0	0	0	0	0	7,914
A	Apr-15	0	0	0	0	0	0	0	0	3,037
A	May-15	0	0	0	0	0	0	0	0	4,860
A	Jun-15	0	0	0	0	0	0	0	2	7,104
A	Jul-15	0	0	0	0	0.25	0.01	0.05	1	5,780
A	Aug-15	0	0	0	0	0	0	0	0	5,780
A	Sep-15	0	0	0	0	0	0	0	0	2,018
A	Oct-15	0	0	0	0	0	0	0	0	1,505
A	Nov-15	0	0	0	0	0	0	0	0	3,998
A	Jan-16	0	0	0	0	0	0	0	0	2,018
A	Feb-16	0	0	0	0	0	0	0	0	4,401
B	Dec-14	0	0	0	0	0	0	0	0	2,397
B	Jan-15	0	0	0	0	0	0	0	0	2,397
B	Feb-15	0	0	0	0	0	0	0	0	2,397
B	Mar-15	0	0	0	0	0	0	0	0	2,397
B	Apr-15	0	0	0	0	0	0	0	0	2,397
B	May-15	0	0	0	0	0	0	0	0	2,210
B	Jun-15	0	0	0	0.22	1.72	0.2	0.44	9	2,397
B	Jul-15	0	0	0	0	0	0	0	0	2,397
B	Aug-15	0	0	0	0	0.41	0.05	0.14	1	2,397
B	Sep-15	0	0	0	0	0	0	0	0	1,099
C	May-15	0	0	0	0	0	0	0	1	1,498
C	Jun-15	0	0	0	0.03	0.06	0.02	0.03	1	3,228
C	Jul-15	0	0	0	0	0	0	0	0	3,228
C	Aug-15	0	0.12	0.23	0.46	0.69	0.31	0.35	9	3,228
C	Sep-15	0	0.03	0.06	0.16	0.26	0.11	0.14	3	3,228
G	Jun-15	0	0	0	0	1.18	0.08	0.31	4	3,209
G	Jul-15	0	0	0	0	0.25	0.01	0.06	1	3,299
G	Aug-15	0	0	0	0	0	0	0	0	3,209
G	Sep-15	0	0	0	0	0	0	0	0	3,209

Table B-6 CPUE (Fish per 100 m²) Summary Statistics Chinook Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Nov-15	0	0	0	0	0	0	0	0	1,633
G	Feb-16	0	0	0	0	0.23	0.03	0.08	1	3,209
H	Jun-15	0	0	0	0	0.31	0.03	0.09	1	2,644
H	Jul-15	0	0	0.11	0.32	0.65	0.21	0.25	10	2,644
H	Aug-15	0.23	0.59	1.13	1.51	3.55	1.3	1.12	32	2,644
H	Sep-15	0	0	0	0	0	0	0	0	2,644
H	Nov-15	0	0	0	0	0	0	0	0	2,644
H	Dec-15	0	0	0	0	0	0	0	0	2,254
H	Jan-16	0	0	0	0	0	0	0	0	1,485
H	Feb-16	0	0	0	0	0	0	0	0	2,644
I	Jun-15	0	0	0	0.26	2.08	0.43	0.74	16	1,614
I	Jul-15	0	0	0	0	0	0	0	0	1,614
I	Aug-15	0	0	0	0	0	0	0	0	1,614
I	Sep-15	0	0	0.38	0.75	0.77	0.38	0.44	6	1,614
I	Nov-15	0	0	0.13	0.32	0.51	0.19	0.25	3	1,614
I	Dec-15	0	0	0	0	0	0	0	0	1,614
I	Jan-16	0	0	0	0	0	0	0	0	1,614
I	Feb-16	0	0	0.13	0.32	0.5	0.19	0.24	3	1,614

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m² area fished. Individuals caught and area seined are the monthly totals.

Table B-7 CPUE (Fish per 15 minutes) Summary Statistics for Chinook Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0	0	0	0	0	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0	0	0	0	0	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	0	0	0	0	0	0	0	247
Day	A, B, C, D, E, F	Jun-15	0	0	0	0	0.48	0.07	0.16	2	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	0	0.31	0.02	0.08	1	448
Day	A, B, C, D, E, F	Aug-15	0	0	0	0	0	0	0	0	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0	0	0	0	0	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	0	0	0	0	160
Day	G	Jun-15	0	0	0	0	0	0	0	0	131
Day	G	Jul-15	0	0	0	0	0	0	0	0	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108

Table B-7 CPUE (Fish per 15 minutes) Summary Statistics for Chinook Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	G	Feb-16	0	0	0	0	0	0	0	0	150
Day	H	Jun-15	0	0	0	0.73	1.36	0.39	0.61	4	107
Day	H	Jul-15	0	0	0	0	1	0.14	0.38	1	125
Day	H	Aug-15	0	0	0	0.6	1.2	0.4	0.69	2	56
Day	H	Sep-15	0	0	0	0	0	0	0	0	53
Day	H	Nov-15	0	0	0	0	0	0	0	0	103
Day	H	Dec-15	0	0	0	0	0	0	0	0	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0	0	0	0	0	55
Day	I	Jun-15	0	0	0	0.22	1.73	0.31	0.65	4	175
Day	I	Jul-15	0	0	0	0.54	0.58	0.24	0.29	3	131
Day	I	Aug-15	0	0	0	0.21	0.43	0.14	0.25	1	94
Day	I	Sep-15	0	0.22	0.44	0.62	0.79	0.41	0.4	4	118
Day	I	Nov-15	0	0	0	0	0	0	0	0	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0	0	0	0	0	49
Night	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	0	0	124
Night	A, B, C, D, E, F	May-15	0	0	0	0	2.81	0.12	0.45	8	551
Night	A, B, C, D, E, F	Jun-15	0	0	0	0	0	0	0	0	493

Table B-7 CPUE (Fish per 15 minutes) Summary Statistics for Chinook Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	A, B, C, D, E, F	Jul-15	0	0	0	0	0	0	0	0	229
Night	G	Jun-15	0	0	0	0	0	0	0	0	281
Night	G	Jul-15	0	0	0	0	1.07	0.06	0.25	1	173

NOTE:

Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-8 CPUE (Fish per 100 m²) Summary Statistics Chum Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0	0	0	0	0	0	2,969
A	Feb-15	0	0	0	0	0	0	0	0	7,914
A	Mar-15	0	0	0	0	0.22	0.02	0.06	1	7,914
A	Apr-15	0	0.04	0.28	0.85	1.24	0.47	0.53	15	3,037
A	May-15	0	0	0	0	0.2	0.04	0.09	2	4,860
A	Jun-15	0	0	0	0	0	0	0	0	7,104
A	Jul-15	0	0	0	0	0	0	0	0	5,780
A	Aug-15	0	0	0	0	0	0	0	0	5,780
A	Sep-15	0	0	0	0	0	0	0	0	2,018
A	Oct-15	0	0	0	0	0	0	0	0	1,505
A	Nov-15	0	0	0	0	0	0	0	0	3,998
A	Jan-16	0	0	0	0	0	0	0	0	2,018
A	Feb-16	0	0	0	0	0	0	0	0	4,401
B	Dec-14	0	0	0	0	0.37	0.04	0.12	1	2,397
B	Jan-15	0	0	0	0	0	0	0	0	2,397
B	Feb-15	0	0	0	0	1.11	0.17	0.38	4	2,397
B	Mar-15	0	0	0	0.53	1.22	0.28	0.45	6	2,397
B	Apr-15	0	0.55	3.74	10.4	12.76	5.74	5.29	144	2,397
B	May-15	0	0	1.78	2.33	6.38	1.89	2.15	41	2,210
B	Jun-15	0	0	0	0	0.69	0.06	0.19	3	2,397
B	Jul-15	0	0	0	0	0	0	0	0	2,397
B	Aug-15	0	0	0	0	0	0	0	0	2,397
B	Sep-15	0	0	0	0	0	0	0	0	1,099
C	May-15	0	0.07	0.14	0.21	0.28	0.14	0.2	3	1,498
C	Jun-15	0	0	0	0	0	0	0	0	3,228
C	Jul-15	0	0	0	0	0	0	0	0	3,228
C	Aug-15	0	0	0	0	0	0	0	0	3,228
C	Sep-15	0	0	0	0	0	0	0	0	3,228
G	Jun-15	0	0	0	0	0	0	0	0	3,209
G	Jul-15	0	0	0	0	0	0	0	0	3,299
G	Aug-15	0	0	0	0	0	0	0	0	3,209
G	Sep-15	0	0	0	0	0	0	0	0	3,209

Table B-8 CPUE (Fish per 100 m²) Summary Statistics Chum Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Nov-15	0	0	0	0	0	0	0	0	1,633
G	Feb-16	0	0	0	0	0	0	0	0	3,209
H	Jun-15	0	0	0	0	0	0	0	0	2,644
H	Jul-15	0	0	0	0	0	0	0	0	2,644
H	Aug-15	0	0	0	0	0	0	0	0	2,644
H	Sep-15	0	0	0	0	0	0	0	0	2,644
H	Nov-15	0	0	0	0	0	0	0	0	2,644
H	Dec-15	0	0	0	0	0	0	0	0	2,254
H	Jan-16	0	0	0	0.08	0.32	0.08	0.16	1	1,485
H	Feb-16	0	0	0	0	0	0	0	0	2,644
I	Jun-15	0	0	0	0	1.03	0.11	0.34	4	1,614
I	Jul-15	0	0	0	0	0	0	0	0	1,614
I	Aug-15	0	0	0	0	0	0	0	0	1,614
I	Sep-15	0	0	0	0	0	0	0	0	1,614
I	Nov-15	0	0	0	0	0	0	0	0	1,614
I	Dec-15	0	0	0	0	0	0	0	0	1,614
I	Jan-16	0	0	0	0	0	0	0	0	1,614
I	Feb-16	0	0	0.13	0.25	0.26	0.13	0.15	2	1,614

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m² area fished. Individuals caught and area seined are the monthly totals.

Table B-9 CPUE (Fish per 15 minutes) Summary Statistics for Chum Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0	0	0	0	0	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0	0	0	0	0	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	0	0	0	0	0	0	0	247
Day	A, B, C, D, E, F	Jun-15	0	0	0	0	0	0	0	0	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	0	0	0	0	0	448
Day	A, B, C, D, E, F	Aug-15	0	0	0	0	0	0	0	0	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0	0	0	0	0	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	0	0	0	0	160
Day	G	Jun-15	0	0	0	0	0	0	0	0	131
Day	G	Jul-15	0	0	0	0	0	0	0	0	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108

Table B-9 CPUE (Fish per 15 minutes) Summary Statistics for Chum Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	G	Feb-16	0	0	0	0	0	0	0	0	150
Day	H	Jun-15	0	0	0	0	0	0	0	0	107
Day	H	Jul-15	0	0	0	0	0	0	0	0	125
Day	H	Aug-15	0	0	0	0	0	0	0	0	56
Day	H	Sep-15	0	0	0	0	0	0	0	0	53
Day	H	Nov-15	0	0	0	0	0	0	0	0	103
Day	H	Dec-15	0	0	0	0	0	0	0	0	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0	0	0	0	0	55
Day	I	Jun-15	0	0	0	0	0	0	0	0	175
Day	I	Jul-15	0	0	0	0	0	0	0	0	131
Day	I	Aug-15	0	0	0	0	0	0	0	0	94
Day	I	Sep-15	0	0	0	0	0	0	0	0	118
Day	I	Nov-15	0	0	0	0	0	0	0	0	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0	0	0	0	0	49
Night	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	0	0	124
Night	A, B, C, D, E, F	May-15	0	0	0	0	1.88	0.09	0.32	6	551
Night	A, B, C, D, E, F	Jun-15	0	0	0	0	1.25	0.01	0.12	2	493

Table B-9 CPUE (Fish per 15 minutes) Summary Statistics for Chum Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	A, B, C, D, E, F	Jul-15	0	0	0	0	0	0	0	0	229
Night	G	Jun-15	0	0	0	0	0	0	0	0	281
Night	G	Jul-15	0	0	0	0	0	0	0	0	173

NOTE:

Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-10 CPUE (Fish per 100 m²) Summary Statistics Coho Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0	0	0	0	0	0	2,969
A	Feb-15	0	0	0	0	0	0	0	0	7,914
A	Mar-15	0	0	0	0	0	0	0	0	7,914
A	Apr-15	0	0	0	0	0	0	0	0	3,037
A	May-15	0	0	0	0	0	0	0	0	4,860
A	Jun-15	0	0	0	0	0.19	0.01	0.05	1	7,104
A	Jul-15	0	0	0	0	0.25	0.02	0.06	2	5,780
A	Aug-15	0	0	0	0	0	0	0	0	5,780
A	Sep-15	0	0	0	0	0	0	0	0	2,018
A	Oct-15	0	0	0	0	0	0	0	0	1,505
A	Nov-15	0	0	0	0	0	0	0	0	3,998
A	Jan-16	0	0	0	0	0	0	0	0	2,018
A	Feb-16	0	0	0	0	0	0	0	0	4,401
B	Dec-14	0	0	0	0	0	0	0	0	2,397
B	Jan-15	0	0	0	0	0	0	0	0	2,397
B	Feb-15	0	0	0	0	0	0	0	0	2,397
B	Mar-15	0	0	0	0	0	0	0	0	2,397
B	Apr-15	0	0	0	0	0	0	0	0	2,397
B	May-15	0	0	0	0	0	0	0	0	2,210
B	Jun-15	0	0	0	0	0.46	0.07	0.16	3	2,397
B	Jul-15	0	0	0	0	1.6	0.18	0.47	7	2,397
B	Aug-15	0	0	0	0.34	0.93	0.24	0.4	7	2,397
B	Sep-15	0	0.21	0.75	1.26	1.37	0.72	0.68	7	1,099
C	May-15	0	0	0	0	0	0	0	0	1,498
C	Jun-15	0.06	0.16	0.26	0.34	0.42	0.24	0.18	6	3,228
C	Jul-15	0	0.03	0.06	0.1	0.39	0.1	0.13	7	3,228
C	Aug-15	0	0.06	0.12	0.12	0.13	0.08	0.07	3	3,228
C	Sep-15	0	0	0	0	0	0	0	0	3,228
G	Jun-15	0	0	0	0	0.21	0.01	0.06	1	3,209
G	Jul-15	0	0	0	0	0	0	0	0	3,299
G	Aug-15	0	0	0	0	0.29	0.03	0.1	1	3,209
G	Sep-15	0	0	0	0	0	0	0	0	3,209

Table B-10 CPUE (Fish per 100 m^2) Summary Statistics Coho Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Nov-15	0	0	0	0	0	0	0	0	1,633
G	Feb-16	0	0	0	0	0	0	0	0	3,209
H	Jun-15	0	0	0.24	0.91	1.22	0.42	0.45	19	2,644
H	Jul-15	0	0	0.11	0.42	0.7	0.22	0.26	12	2,644
H	Aug-15	0	0	0	0	0	0	0	0	2,644
H	Sep-15	0	0	0.26	0.39	0.97	0.29	0.35	7	2,644
H	Nov-15	0	0	0	0	0	0	0	0	2,644
H	Dec-15	0	0	0	0	0	0	0	0	2,254
H	Jan-16	0	0	0	0	0	0	0	0	1,485
H	Feb-16	0	0	0	0	0	0	0	0	2,644
I	Jun-15	0	0	0.26	0.92	7.69	1.12	2.49	40	1,614
I	Jul-15	0	0	0.24	0.45	2	0.47	0.7	21	1,614
I	Aug-15	0	0	0.51	1.08	1.25	0.57	0.66	9	1,614
I	Sep-15	0	0	0	0	0	0	0	0	1,614
I	Nov-15	0	0	0	0	0	0	0	0	1,614
I	Dec-15	0	0	0	0	0	0	0	0	1,614
I	Jan-16	0	0	0	0	0	0	0	0	1,614
I	Feb-16	0	0	0	0	0	0	0	0	1,614

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m2 area fished. Individuals caught and area seined are the monthly totals.

Table B-11 CPUE (Fish per 15 minutes) Summary Statistics for Coho Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0	0	0	0	0	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0	0	0	0	0	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	0	0	0	0	0	0	0	247
Day	A, B, C, D, E, F	Jun-15	0	0	0	0	0.68	0.05	0.19	1	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	0	0.31	0.04	0.11	2	448
Day	A, B, C, D, E, F	Aug-15	0	0	0	0	0	0	0	0	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0	0	0	0	0	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	0	0	0	0	160
Day	G	Jun-15	0	0	0	0	0	0	0	0	131
Day	G	Jul-15	0	0	0	0	0	0	0	0	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108

Table B-11 CPUE (Fish per 15 minutes) Summary Statistics for Coho Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	G	Feb-16	0	0	0	0	0	0	0	0	150
Day	H	Jun-15	0	0	0	0	0	0	0	0	107
Day	H	Jul-15	0	0	0	0	1.07	0.15	0.4	1	125
Day	H	Aug-15	0	0	0	0	0	0	0	0	56
Day	H	Sep-15	0	0	0	0	0	0	0	0	53
Day	H	Nov-15	0	0	0	0	0	0	0	0	103
Day	H	Dec-15	0	0	0	0	0	0	0	0	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0	0	0	0	0	55
Day	I	Jun-15	0	0.22	0.6	1.04	2.31	0.77	0.8	10	175
Day	I	Jul-15	0	0	0	0	0	0	0	0	131
Day	I	Aug-15	0	0	0	0	0	0	0	0	94
Day	I	Sep-15	0	0	0	0	0	0	0	0	118
Day	I	Nov-15	0	0	0	0	0	0	0	0	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0	0	0	0	0	49
Night	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	0	0	124
Night	A, B, C, D, E, F	May-15	0	0	0	0	2.81	0.28	0.65	18	551
Night	A, B, C, D, E, F	Jun-15	0	0	0	0	1.5	0.12	0.34	21	493

Table B-11 CPUE (Fish per 15 minutes) Summary Statistics for Coho Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	A, B, C, D, E, F	Jul-15	0	0	0	0	1.07	0.03	0.18	2	229
Night	G	Jun-15	0	0	0	0	0	0	0	0	281
Night	G	Jul-15	0	0	0	0	0	0	0	0	173

NOTE:

Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-12 CPUE (Fish per 100 m^2) Summary Statistics Pink Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0	0	0	0	0	0	2,969
A	Feb-15	0	0	0	0	0.25	0.02	0.07	1	7,914
A	Mar-15	0	0	0	0.19	0.4	0.09	0.13	7	7,914
A	Apr-15	1.18	1.76	4.91	20.25	50.53	14.6	19.7	549	3,037
A	May-15	0	0	0	0	0.17	0.03	0.07	2	4,860
A	Jun-15	0	0	0	0	0	0	0	0	7,104
A	Jul-15	0	0	0	0	0	0	0	0	5,780
A	Aug-15	0	0	0	0	0	0	0	0	5,780
A	Sep-15	0	0	0	0	0	0	0	0	2,018
A	Oct-15	0	0	0	0	0	0	0	0	1,505
A	Nov-15	0	0	0	0	0	0	0	0	3,998
A	Jan-16	0	0	0	0	0	0	0	0	2,018
A	Feb-16	0	0	0	0	0	0	0	0	4,401
B	Dec-14	0	0	0	0	0.74	0.08	0.25	2	2,397
B	Jan-15	0	0	0	0	2.21	0.28	0.73	7	2,397
B	Feb-15	0	0	0	0	1.6	0.32	0.64	5	2,397
B	Mar-15	0	0	0.41	1.03	4.8	0.9	1.54	24	2,397
B	Apr-15	0	0	0.65	1.4	4.1	1.03	1.31	21	2,397
B	May-15	0	0	0	0	0	0	0	0	2,210
B	Jun-15	0	0	0	0	0	0	0	0	2,397
B	Jul-15	0	0	0	0	0	0	0	0	2,397
B	Aug-15	0	0	0	0	0	0	0	0	2,397
B	Sep-15	0	0	0	0	0	0	0	0	1,099
C	May-15	0	0	0	0	0	0	0	0	1,498
C	Jun-15	0	0	0	0	0	0	0	0	3,228
C	Jul-15	0	0	0	0	0	0	0	0	3,228
C	Aug-15	0	0	0	0	0	0	0	0	3,228
C	Sep-15	0	0	0	0	0	0	0	0	3,228
G	Jun-15	0	0	0	0	0	0	0	0	3,209
G	Jul-15	0	0	0	0	0	0	0	0	3,299
G	Aug-15	0	0	0	0	0	0	0	0	3,209
G	Sep-15	0	0	0	0	0	0	0	0	3,209

Table B-12 CPUE (Fish per 100 m^2) Summary Statistics Pink Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Nov-15	0	0	0	0	0	0	0	0	1,633
G	Feb-16	0	0	0	0	0.46	0.09	0.18	3	3,209
H	Jun-15	0	0	0	0	0.32	0.03	0.09	1	2,644
H	Jul-15	0	0	0	0	0	0	0	0	2,644
H	Aug-15	0	0	0	0	0	0	0	0	2,644
H	Sep-15	0	0	0	0	0	0	0	0	2,644
H	Nov-15	0	0	0	0	0	0	0	0	2,644
H	Dec-15	0	0	0	0	0	0	0	0	2,254
H	Jan-16	0	0	0	0	0	0	0	0	1,485
H	Feb-16	0	0	0	0	0.32	0.05	0.12	1	2,644
I	Jun-15	0	0	0	0	0	0	0	0	1,614
I	Jul-15	0	0	0	0	0	0	0	0	1,614
I	Aug-15	0	0	0	0	0	0	0	0	1,614
I	Sep-15	0	0	0	0	0	0	0	0	1,614
I	Nov-15	0	0	0	0	0	0	0	0	1,614
I	Dec-15	0	0	0	0	0	0	0	0	1,614
I	Jan-16	0	0	0	0	0	0	0	0	1,614
I	Feb-16	0	0	0	0.06	0.25	0.06	0.13	1	1,614

NOTE:

Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m^2 area fished. Individuals caught and area seined are the monthly totals.

Table B-13 CPUE (Fish per 15 minutes) Summary Statistics for Pink Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0	0	0	0	0	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0	0	0	0	0	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	0	0	0	0	0	0	0	247
Day	A, B, C, D, E, F	Jun-15	0	0	0	0	0	0	0	0	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	0	0	0	0	0	448
Day	A, B, C, D, E, F	Aug-15	0	0	0	0	0	0	0	0	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0	0	0	0	0	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	0	0	0	0	160
Day	G	Jun-15	0	0	0	0	0	0	0	0	131
Day	G	Jul-15	0	0	0	0	0	0	0	0	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108

Table B-13 CPUE (Fish per 15 minutes) Summary Statistics for Pink Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	G	Feb-16	0	0	0	0	0	0	0	0	150
Day	H	Jun-15	0	0	0	0	0	0	0	0	107
Day	H	Jul-15	0	0	0	0	0	0	0	0	125
Day	H	Aug-15	0	0	0	0	0	0	0	0	56
Day	H	Sep-15	0	0	0	0	0	0	0	0	53
Day	H	Nov-15	0	0	0	0	0	0	0	0	103
Day	H	Dec-15	0	0	0	0	0	0	0	0	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0	0	0	0	0	55
Day	I	Jun-15	0	0	0	0	0	0	0	0	175
Day	I	Jul-15	0	0	0	0	0	0	0	0	131
Day	I	Aug-15	0	0	0	0	0	0	0	0	94
Day	I	Sep-15	0	0	0	0	0	0	0	0	118
Day	I	Nov-15	0	0	0	0	0	0	0	0	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0	0	0	0	0	49
Night	A, B, C, D, E, F	Apr-15	0	0	0.29	1.27	1.67	0.63	0.78	4	124
Night	A, B, C, D, E, F	May-15	0	0	0	0	0.71	0.03	0.12	4	551
Night	A, B, C, D, E, F	Jun-15	0	0	0	0	0	0	0	0	493

Table B-13 CPUE (Fish per 15 minutes) Summary Statistics for Pink Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	A, B, C, D, E, F	Jul-15	0	0	0	0	0	0	0	0	229
Night	G	Jun-15	0	0	0	0	0	0	0	0	281
Night	G	Jul-15	0	0	0	0	0	0	0	0	173

NOTE:

Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-14 CPUE (Fish per 100 m^2) Summary Statistics Sockeye Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0	0	0	0	0	0	2,969
A	Feb-15	0	0	0	0	0	0	0	0	7,914
A	Mar-15	0	0	0	0	0	0	0	0	7,914
A	Apr-15	0	0	0	0	0	0	0	0	3,037
A	May-15	0	0	0	0	0	0	0	0	4,860
A	Jun-15	0	0	0	0	0	0	0	0	7,104
A	Jul-15	0	0	0	0	0	0	0	0	5,780
A	Aug-15	0	0	0	0	0	0	0	0	5,780
A	Sep-15	0	0	0	0	0	0	0	0	2,018
A	Oct-15	0	0	0	0	0	0	0	0	1,505
A	Nov-15	0	0	0	0	0	0	0	0	3,998
A	Jan-16	0	0	0	0	0	0	0	0	2,018
A	Feb-16	0	0	0	0	0	0	0	0	4,401
B	Dec-14	0	0	0	0	0	0	0	0	2,397
B	Jan-15	0	0	0	0	0	0	0	0	2,397
B	Feb-15	0	0	0	0	0	0	0	0	2,397
B	Mar-15	0	0	0	0	0	0	0	0	2,397
B	Apr-15	0	0	0	0	0	0	0	0	2,397
B	May-15	0	0.58	0.82	1.11	1.82	0.86	0.56	20	2,210
B	Jun-15	0	0	0	0	0.65	0.04	0.16	1	2,397
B	Jul-15	0	0	0	0	0	0	0	0	2,397
B	Aug-15	0	0	0	0	0	0	0	0	2,397
B	Sep-15	0	0	0	0	0	0	0	0	1,099
C	May-15	0	0.03	0.07	0.1	0.14	0.07	0.1	1	1,498
C	Jun-15	0	0.07	0.14	0.2	0.26	0.13	0.13	3	3,228
C	Jul-15	0	0	0	0	0.06	0.01	0.02	1	3,228
C	Aug-15	0	0	0	0	0	0	0	0	3,228
C	Sep-15	0	0	0	0	0	0	0	0	3,228
G	Jun-15	0	0	0	0	0	0	0	0	3,209
G	Jul-15	0	0	0	0	0	0	0	0	3,299
G	Aug-15	0	0	0	0	0	0	0	0	3,209
G	Sep-15	0	0	0	0	0	0	0	0	3,209

Table B-14 CPUE (Fish per 100 m^2) Summary Statistics Sockeye Salmon in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Nov-15	0	0	0	0	0	0	0	0	1,633
G	Feb-16	0	0	0	0	0	0	0	0	3,209
H	Jun-15	0	0	0	0	0	0	0	0	2,644
H	Jul-15	0	0	0	0	0	0	0	0	2,644
H	Aug-15	0	0	0	0	0	0	0	0	2,644
H	Sep-15	0	0	0	0	0	0	0	0	2,644
H	Nov-15	0	0	0	0	0	0	0	0	2,644
H	Dec-15	0	0	0	0	0	0	0	0	2,254
H	Jan-16	0	0	0	0	0	0	0	0	1,485
H	Feb-16	0	0	0	0	0	0	0	0	2,644
I	Jun-15	0	0	0	0	0	0	0	0	1,614
I	Jul-15	0	0	0	0	0	0	0	0	1,614
I	Aug-15	0	0	0	0	0	0	0	0	1,614
I	Sep-15	0	0	0	0	0	0	0	0	1,614
I	Nov-15	0	0	0	0	0	0	0	0	1,614
I	Dec-15	0	0	0	0	0	0	0	0	1,614
I	Jan-16	0	0	0	0	0	0	0	0	1,614
I	Feb-16	0	0	0	0	0	0	0	0	1,614

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m^2 area fished. Individuals caught and area seined are the monthly totals.

Table B-15 CPUE (Fish per 15 minutes) Summary Statistics for Sockeye Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0	0	0	0	0	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0	0	0	0	0	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	0.53	1.28	2.72	11.47	2.34	3.41	28	247
Day	A, B, C, D, E, F	Jun-15	0	0	0	0	1.12	0.13	0.34	4	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	0	0.92	0.07	0.25	3	448
Day	A, B, C, D, E, F	Aug-15	0	0	0	0	0	0	0	0	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0	0	0	0	0	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	0	0	0	0	160
Day	G	Jun-15	0	0	0	0	2.14	0.31	0.81	3	131
Day	G	Jul-15	0	0	0	0	0	0	0	0	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108

Table B-15 CPUE (Fish per 15 minutes) Summary Statistics for Sockeye Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	G	Feb-16	0	0	0	0	0	0	0	0	150
Day	H	Jun-15	0	0	0	0.54	1.45	0.36	0.61	4	107
Day	H	Jul-15	0	0	0	0	0	0	0	0	125
Day	H	Aug-15	0	0	0	0	0	0	0	0	56
Day	H	Sep-15	0	0	0	0	0	0	0	0	53
Day	H	Nov-15	0	0	0	0	0	0	0	0	103
Day	H	Dec-15	0	0	0	0	0	0	0	0	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0	0	0	0	0	55
Day	I	Jun-15	0	0	0.54	1.19	1.73	0.66	0.73	9	175
Day	I	Jul-15	0	0	0	0	0	0	0	0	131
Day	I	Aug-15	0	0	0	0	0	0	0	0	94
Day	I	Sep-15	0	0	0	0	0	0	0	0	118
Day	I	Nov-15	0	0	0	0	0	0	0	0	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0	0	0	0	0	49
Night	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	0	0	124
Night	A, B, C, D, E, F	May-15	0	0	0	0	2.81	0.29	0.68	19	551
Night	A, B, C, D, E, F	Jun-15	0	0	0	0	1.88	0.08	0.31	13	493

Table B-15 CPUE (Fish per 15 minutes) Summary Statistics for Sockeye Salmon in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	A, B, C, D, E, F	Jul-15	0	0	0	0	0.75	0.01	0.09	1	229
Night	G	Jun-15	0	0	0	0	0	0	0	0	281
Night	G	Jul-15	0	0	0	0	0	0	0	0	173

NOTE:

Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-16 CPUE (Fish per 100 m^2) Summary Statistics for English Sole in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0	0	0	0	0	0	2,969
A	Feb-15	0	0	0	0	0	0	0	0	7,914
A	Mar-15	0	0	0	0	0.15	0.01	0.04	1	7,914
A	Apr-15	0	0	0	0	0	0	0	0	3,037
A	May-15	0	0	0	0	0	0	0	0	4,860
A	Jun-15	0	0	0.22	0.5	0.8	0.32	0.3	23	7,104
A	Jul-15	0	0	0.32	1.02	2.14	0.61	0.65	70	5,780
A	Aug-15	0.2	1.01	1.33	1.97	5.82	1.91	1.67	112	5,780
A	Sep-15	0	0	0	0	0	0	0	0	2,018
A	Oct-15	0	0	0	0	0	0	0	0	1,505
A	Nov-15	0	0	0	0	0.19	0.02	0.07	1	3,998
A	Jan-16	0	0.15	0.41	0.66	0.78	0.4	0.36	8	2,018
A	Feb-16	0	0	0	0.2	0.62	0.16	0.27	7	4,401
B	Dec-14	0	0	0	0	0	0	0	0	2,397
B	Jan-15	0	0	0	0	0	0	0	0	2,397
B	Feb-15	0	0	0	0	0	0	0	0	2,397
B	Mar-15	0	0	0	0	0	0	0	0	2,397
B	Apr-15	0	0	0	0	2.76	0.38	0.92	9	2,397
B	May-15	0	1.13	4.88	9.37	13.67	5.78	5.5	117	2,210
B	Jun-15	0	0	0	0	0.34	0.04	0.1	2	2,397
B	Jul-15	0	0	0	0.89	5.24	0.87	1.54	46	2,397
B	Aug-15	0	0	0.44	1.22	2.58	0.71	0.87	15	2,397
B	Sep-15	0	0	0	0.21	0.83	0.21	0.41	3	1,099
C	May-15	1.53	1.53	1.54	1.54	1.54	1.54	0.01	23	1,498
C	Jun-15	0.12	0.12	0.13	0.27	0.42	0.22	0.17	6	3,228
C	Jul-15	0	0.32	0.64	1.21	1.8	0.79	0.65	57	3,228
C	Aug-15	0	0.06	0.13	0.53	0.92	0.35	0.5	17	3,228
C	Sep-15	0	0.06	0.12	0.13	0.14	0.08	0.07	3	3,228
G	Jun-15	0	0	0	0	0	0	0	0	3,209
G	Jul-15	0	0	0.48	1.79	10.58	1.53	2.53	99	3,299
G	Aug-15	0	0.75	1.93	4.16	5.59	2.53	1.96	79	3,209
G	Sep-15	0	0.24	0.9	1.96	5.59	1.49	1.85	41	3,209

Table B-16 CPUE (Fish per 100 m²) Summary Statistics for English Sole in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Nov-15	0.5	1.02	1.23	1.75	3.23	1.55	1.18	24	1,633
G	Feb-16	0	0	0	0	0	0	0	0	3,209
H	Jun-15	0	0	0	0	0	0	0	0	2,644
H	Jul-15	0	0	0	0	1.62	0.14	0.43	6	2,644
H	Aug-15	0	0	0.32	1.45	2.96	0.88	1.3	26	2,644
H	Sep-15	0	0.12	0.61	0.65	2.31	0.64	0.79	16	2,644
H	Nov-15	0	0	0	0	0	0	0	0	2,644
H	Dec-15	0	0	0	0	0	0	0	0	2,254
H	Jan-16	0	0	0	0	0	0	0	0	1,485
H	Feb-16	0	0	0	0	0.32	0.05	0.12	1	2,644
I	Jun-15	0	0	0	0	0.51	0.06	0.17	2	1,614
I	Jul-15	0	0	0	0.32	0.75	0.19	0.29	13	1,614
I	Aug-15	0	0.38	0.72	1.19	2	0.86	0.85	14	1,614
I	Sep-15	0.69	2.48	3.54	5.37	9.48	4.31	3.72	68	1,614
I	Nov-15	0	0.19	0.51	1.01	1.75	0.69	0.77	11	1,614
I	Dec-15	0	0	0.12	0.25	1	0.22	0.34	7	1,614
I	Jan-16	0	0	0	0	0	0	0	0	1,614
I	Feb-16	0	0	0	0	0	0	0	0	1,614

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m² area fished. Individuals caught and area seined are the monthly totals.

Table B-17 CPUE (Fish per 15 minutes) Summary Statistics for English Sole in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0	0	0	0	0	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0	0	0	0	0	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	0	0	0	0	0	0	0	247
Day	A, B, C, D, E, F	Jun-15	0	0	0	0	0	0	0	0	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	0	0	0	0	0	448
Day	A, B, C, D, E, F	Aug-15	0	0	0	0	0	0	0	0	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0	0	0	0	0	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	0	0	0	0	160
Day	G	Jun-15	0	0	0	0	0	0	0	0	131
Day	G	Jul-15	0	0	0	0	0	0	0	0	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108
Day	G	Feb-16	0	0	0	0	0	0	0	0	150

Table B-17 CPUE (Fish per 15 minutes) Summary Statistics for English Sole in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	H	Jun-15	0	0	0	0	0	0	0	0	107
Day	H	Jul-15	0	0	0	0	0	0	0	0	125
Day	H	Aug-15	0	0	0	0	0	0	0	0	56
Day	H	Sep-15	0	0	0	0	0	0	0	0	53
Day	H	Nov-15	0	0	0	0	0	0	0	0	103
Day	H	Dec-15	0	0	0	0	0	0	0	0	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0	0	0	0	0	55
Day	I	Jun-15	0	0	0	0	0	0	0	0	175
Day	I	Jul-15	0	0	0	0	0.68	0.1	0.26	1	131
Day	I	Aug-15	0	0	0	0	0	0	0	0	94
Day	I	Sep-15	0	0	0	0	0	0	0	0	118
Day	I	Nov-15	0	0	0	0	0	0	0	0	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0	0	0	0	0	49
Night	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	0	0	124
Night	A, B, C, D, E, F	May-15	0	0	0	0	0.44	0.01	0.06	1	551
Night	A, B, C, D, E, F	Jun-15	0	0	0	0	0	0	0	0	493
Night	A, B, C, D, E, F	Jul-15	0	0	0	0	0.88	0.01	0.11	1	229

Table B-17 CPUE (Fish per 15 minutes) Summary Statistics for English Sole in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	G	Jun-15	0	0	0	0	0	0	0	0	281
Night	G	Jul-15	0	0	0	0	0	0	0	0	173

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-18 CPUE (Fish per 100 m²) Summary Statistics for Starry Flounder in Beach Seine Catches

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0	0.12	0.38	0.09	0.16	3	2,969
A	Feb-15	0	0	0	0.22	0.76	0.18	0.26	11	7,914
A	Mar-15	0	0.11	0.29	0.88	1.41	0.47	0.47	34	7,914
A	Apr-15	0	0	0.29	0.84	1.26	0.46	0.55	11	3,037
A	May-15	0	0.19	0.4	0.89	3.35	0.95	1.18	56	4,860
A	Jun-15	0	0.53	1.11	1.68	2.14	1.05	0.74	183	7,104
A	Jul-15	0	0.2	0.6	1.23	3.43	0.88	1.03	108	5,780
A	Aug-15	0	0.24	0.45	0.92	1.87	0.62	0.55	36	5,780
A	Sep-15	0.62	1.36	2.07	2.95	4.2	2.24	1.52	46	2,018
A	Oct-15	0	0	0	0.19	0.38	0.13	0.22	2	1,505
A	Nov-15	0	0	0	0	0	0	0	0	3,998
A	Jan-16	0	0	0.1	0.2	0.21	0.1	0.12	2	2,018
A	Feb-16	0	0	0	0	0	0	0	0	4,401
B	Dec-14	0	0	0	0	0	0	0	0	2,397
B	Jan-15	0	0	0	0	0.55	0.09	0.19	3	2,397
B	Feb-15	0	0	0	0	0.83	0.09	0.28	3	2,397
B	Mar-15	0	0	0.37	0.53	2.44	0.51	0.76	12	2,397
B	Apr-15	0	0	0	0.46	1.29	0.32	0.45	6	2,397
B	May-15	0.37	1.5	2.31	4.28	7.3	3.05	2.37	74	2,210
B	Jun-15	0	0.65	1.29	2.21	4.14	1.47	1.1	76	2,397
B	Jul-15	0	0	0.78	2.83	12.76	2.31	3.84	144	2,397
B	Aug-15	0	0.37	0.83	1.29	7.53	1.69	2.42	54	2,397
B	Sep-15	0	0.28	0.87	1.71	2.76	1.12	1.23	14	1,099
C	May-15	1.42	1.44	1.47	1.5	1.53	1.47	0.08	45	1,498
C	Jun-15	0.23	0.25	0.28	0.33	0.39	0.3	0.08	9	3,228
C	Jul-15	0	0.06	0.13	0.77	1.25	0.43	0.57	26	3,228
C	Aug-15	0	0	0	0.62	1.25	0.42	0.72	9	3,228
C	Sep-15	0	0	0	0.14	0.28	0.09	0.16	2	3,228
G	Jun-15	0	0.49	0.67	1.14	1.85	0.8	0.62	42	3,209
G	Jul-15	0	0.34	0.71	1.16	7.45	1.25	1.72	77	3,299
G	Aug-15	0	0	0.32	0.39	1.18	0.33	0.4	9	3,209
G	Sep-15	0	0	0	0.08	0.39	0.09	0.16	2	3,209

Table B-18 CPUE (Fish per 100 m^2) Summary Statistics for Starry Flounder in Beach Seine Catches

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Nov-15	0	0	0	0	0	0	0	0	1,633
G	Feb-16	0	0	0	0	0.23	0.03	0.08	1	3,209
H	Jun-15	0	2.27	2.57	6.05	10.17	4.01	3.14	193	2,644
H	Jul-15	2.11	2.61	3.87	5.68	9.14	4.38	2.31	235	2,644
H	Aug-15	0	5	9.23	10.9	12.88	7.7	4.81	217	2,644
H	Sep-15	0	1.62	3.37	5.05	6.15	3.27	2.34	92	2,644
H	Nov-15	0	0.28	0.46	1.09	3.67	1.02	1.31	43	2,644
H	Dec-15	0	0.06	0.27	1.11	1.64	0.59	0.72	15	2,254
H	Jan-16	0	0	0	0	0	0	0	0	1,485
H	Feb-16	2.26	3.07	3.98	6.01	7.98	4.63	2.25	125	2,644
I	Jun-15	0	0.92	2.5	2.75	3.33	1.81	1.23	65	1,614
I	Jul-15	1.03	2.5	2.78	4.08	14.59	4.37	4.3	169	1,614
I	Aug-15	0	0.96	1.33	1.55	2.05	1.18	0.86	19	1,614
I	Sep-15	0.51	0.7	1.88	3	3	1.82	1.37	30	1,614
I	Nov-15	0	0	0	0	0	0	0	0	1,614
I	Dec-15	0	0	0.24	0.26	0.51	0.19	0.18	6	1,614
I	Jan-16	0	0	0	0.35	1.39	0.35	0.69	6	1,614
I	Feb-16	1.5	1.91	2.3	2.86	3.84	2.48	1	40	1,614

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m^2 area fished. Individuals caught and area seined are the monthly totals.

Table B-19 CPUE (Fish per 15 minutes) Summary Statistics for Starry Flounder in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0	0	0	0	0	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0	0	0	0	0	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	0	0	0	2.25	0.36	0.79	5	247
Day	A, B, C, D, E, F	Jun-15	0	0	0	0	1.88	0.14	0.52	3	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	0	0	0	0	0	448
Day	A, B, C, D, E, F	Aug-15	0	0	0	0	0	0	0	0	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0	0	0	0	0	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	0	0	0	0	160
Day	G	Jun-15	0	0	0	0	0	0	0	0	131
Day	G	Jul-15	0	0	0	0	0	0	0	0	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108

Table B-19 CPUE (Fish per 15 minutes) Summary Statistics for Starry Flounder in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	G	Feb-16	0	0	0	0	0	0	0	0	150
Day	H	Jun-15	0	0	0	0	0	0	0	0	107
Day	H	Jul-15	0	0	0	0	0	0	0	0	125
Day	H	Aug-15	0	0	0	0	0	0	0	0	56
Day	H	Sep-15	0	0	0	0	0	0	0	0	53
Day	H	Nov-15	0	0	0	0	0	0	0	0	103
Day	H	Dec-15	0	0	0	0	0	0	0	0	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0	0	0	0	0	55
Day	I	Jun-15	0	0	0	0	0.5	0.07	0.19	1	175
Day	I	Jul-15	0	0	0	0.27	0.68	0.17	0.3	2	131
Day	I	Aug-15	0	0	0	0.52	1.03	0.34	0.6	2	94
Day	I	Sep-15	0	0	0	0	0	0	0	0	118
Day	I	Nov-15	0	0	0	0	0	0	0	0	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0	0	0	0	0	49
Night	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	0	0	124
Night	A, B, C, D, E, F	May-15	0	0	0	0	3.21	0.18	0.59	10	551

Table B-19 CPUE (Fish per 15 minutes) Summary Statistics for Starry Flounder in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	A, B, C, D, E, F	Jun-15	0	0	0	0	9	0.26	1.05	29	493
Night	A, B, C, D, E, F	Jul-15	0	0	0	0	5	0.12	0.64	4	229
Night	G	Jun-15	0	0	0	0	0	0	0	0	281
Night	G	Jul-15	0	0	0	0	0	0	0	0	173

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-20 CPUE (Fish per 100 m²) Summary Statistics for Fish Larvae in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
A	Jan-15	0	0	0	0	0	0	0	0	2,969
A	Feb-15	0	0	0	0	0	0	0	0	7,914
A	Mar-15	0	0	0	0	0	0	0	0	7,914
A	Apr-15	0	0	0	0	0	0	0	0	3,037
A	May-15	0	0	0	0	0	0	0	0	4,860
A	Jun-15	0	0	0	0	0.41	0.03	0.1	2	7,104
A	Jul-15	0	0	0	0	12.25	0.88	2.79	103	5,780
A	Aug-15	0	0	0	7.97	10.15	3.61	4.53	205	5,780
A	Sep-15	0	0	0	0	0	0	0	0	2,018
A	Oct-15	0	0	0	0	0	0	0	0	1,505
A	Nov-15	0	0	0	0	0	0	0	0	3,998
A	Jan-16	0	0	0	0	0	0	0	0	2,018
A	Feb-16	0	0	0.2	0.95	1.4	0.48	0.58	21	4,401
B	Dec-14	0	0	0	0	0	0	0	0	2,397
B	Jan-15	0	0	0	0	0	0	0	0	2,397
B	Feb-15	0	0	0	0	0	0	0	0	2,397
B	Mar-15	0	0	0	0	0	0	0	0	2,397
B	Apr-15	0	0	0	0	0	0	0	0	2,397
B	May-15	0	0	0	0	0	0	0	0	2,210
B	Jun-15	0	0	0	0	0	0	0	0	2,397
B	Jul-15	0	0	0	0	6.1	0.35	1.44	16	2,397
B	Aug-15	0	0	0	0	0	0	0	0	2,397
B	Sep-15	0	0	0	0	0	0	0	0	1,099
C	May-15	0	0	0	0	0	0	0	0	1,498
C	Jun-15	0	0	0	0	0	0	0	0	3,228
C	Jul-15	0	0	0	0	0	0	0	0	3,228
C	Aug-15	0	0	0	0	0	0	0	0	3,228
C	Sep-15	0	0	0	0	0	0	0	0	3,228
G	Jun-15	0	0	0	0	0.21	0.01	0.06	1	3,209
G	Jul-15	0	0	0	7.2	29.4	4.89	8.6	335	3,299
G	Aug-15	0	0	0	3.52	117.6	14.47	38.8	439	3,209
G	Sep-15	0	0	9.6	44.29	76.87	23.35	29.11	671	3,209

Table B-20 CPUE (Fish per 100 m^2) Summary Statistics for Fish Larvae in Beach Seine Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Area Seined
G	Nov-15	0	0	0	0	0	0	0	0	1,633
G	Feb-16	0	0	2.52	11.52	31.82	8.38	11.54	275	3,209
H	Jun-15	0	0	0	0	0	0	0	0	2,644
H	Jul-15	0	0	0	27.58	205.14	24.32	54.25	1263	2,644
H	Aug-15	0	0	0	0	0	0	0	0	2,644
H	Sep-15	0	0	0	0	0	0	0	0	2,644
H	Nov-15	0	0	0	0	0	0	0	0	2,644
H	Dec-15	0	0	0	0	0	0	0	0	2,254
H	Jan-16	0	0	0	0	0	0	0	0	1,485
H	Feb-16	0	2.37	18.1	39.47	85.92	26.81	31.33	747	2,644
I	Jun-15	0	0	0	0	0	0	0	0	1,614
I	Jul-15	0	0	0	0	0	0	0	0	1,614
I	Aug-15	0	0	0	0	0	0	0	0	1,614
I	Sep-15	0	0	0	0	0	0	0	0	1,614
I	Nov-15	0	0	0	0	0	0	0	0	1,614
I	Dec-15	0	0	0	0	0	0	0	0	1,614
I	Jan-16	0	0	0	0	0	0	0	0	1,614
I	Feb-16	1.79	4.08	9.3	14.35	16.12	9.13	6.89	146	1,614

NOTE:

Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 100 m^2 area fished. Individuals caught and area seined are the monthly totals.

Table B-21 CPUE (Fish per 15 minutes) Summary Statistics for Fish Larvae in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	A, B, C, D, E, F	Feb-15	0	0	0	0.22	0.36	0.11	0.17	2	189
Day	A, B, C, D, E, F	Mar-15	0	0	0	0	0	0	0	0	198
Day	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	NA	0	63
Day	A, B, C, D, E, F	May-15	0	0	0	0.51	1.03	0.25	0.41	5	247
Day	A, B, C, D, E, F	Jun-15	0	0	0	0	11.54	0.92	3.19	31	425
Day	A, B, C, D, E, F	Jul-15	0	0	0	11.54	15.31	4.62	6.21	191	448
Day	A, B, C, D, E, F	Aug-15	3.57	5.23	6.08	11.67	18.1	8.93	5.96	105	175
Day	A, B, C, D, E, F	Sep-15	0	0	0	0	0	0	0	0	173
Day	A, B, C, D, E, F	Oct-15	0	0	0	0	0	0	0	0	174
Day	A, B, C, D, E, F	Nov-15	0	0	0	0	0	0	0	0	243
Day	A, B, C, D, E, F	Dec-15	0	0	0	0	0	0	0	0	158
Day	A, B, C, D, E, F	Jan-16	0	0	0	0	0	0	0	0	191
Day	A, B, C, D, E, F	Feb-16	0	0	0	0	1.07	0.18	0.44	2	160
Day	G	Jun-15	0	0	0	1.02	23.57	3.66	8.81	36	131
Day	G	Jul-15	0	0	0	5.58	6.82	2.3	3.2	40	210
Day	G	Aug-15	0	0	0	0	0	0	0	0	76
Day	G	Sep-15	0	0	0	0	0	0	0	0	125
Day	G	Nov-15	0	0	0	0	0	0	0	0	127
Day	G	Dec-15	0	0	0	0	0	0	0	0	202
Day	G	Jan-16	0	0	0	0	0	0	0	0	108

Table B-21 CPUE (Fish per 15 minutes) Summary Statistics for Fish Larvae in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Day	G	Feb-16	0	0	0	0	0	0	0	0	150
Day	H	Jun-15	0	2.14	11.1	14.66	16.67	8.98	7.46	67	107
Day	H	Jul-15	9.38	14.64	31.58	439.44	750.65	242.83	341.53	2,201	125
Day	H	Aug-15	0	0	0	4.17	8.33	2.78	4.81	10	56
Day	H	Sep-15	0	0	0	17.86	35.71	11.9	20.62	50	53
Day	H	Nov-15	0	0	0	0	0	0	0	0	103
Day	H	Dec-15	0	0	0	0	0	0	0	0	76
Day	H	Jan-16	0	0	0	0	0	0	0	0	54
Day	H	Feb-16	0	0	0	0.36	0.71	0.24	0.41	1	55
Day	I	Jun-15	0	0	14.29	19.04	24	10.91	10.84	130	175
Day	I	Jul-15	13.39	56.55	108.75	214.45	900	223.45	309.83	1,444	131
Day	I	Aug-15	0	0	0	0.26	0.52	0.17	0.3	1	94
Day	I	Sep-15	0	0	0	0	0	0	0	0	118
Day	I	Nov-15	0	0	0	0	0	0	0	0	62
Day	I	Dec-15	0	0	0	0	0	0	0	0	156
Day	I	Jan-16	0	0	0	0	0	0	0	0	100
Day	I	Feb-16	0	0	0	0.38	0.75	0.25	0.43	1	49
Night	A, B, C, D, E, F	Apr-15	0	0	0	0	0	0	0	0	124
Night	A, B, C, D, E, F	May-15	0	0	0	0	9.55	0.59	1.84	30	551
Night	A, B, C, D, E, F	Jun-15	0	0	4.62	18.75	937.5	19.36	79.45	2,647	493

Table B-21 CPUE (Fish per 15 minutes) Summary Statistics for Fish Larvae in Trawl Catches

Survey Time	Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Minutes Trawled
Night	A, B, C, D, E, F	Jul-15	0	1.67	10.71	30	475	28.88	63.2	1,290	229
Night	G	Jun-15	0	0	3.93	15.88	28.85	8.25	9.97	226	281
Night	G	Jul-15	0	0	0	3.39	25	4.34	8.36	37	173

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 15 minute tows. Individuals caught and minutes trawled are the monthly totals.

Table B-22 CPUE (Crab per 24 hours) Summary Statistics for Dungeness Crab in Trap Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Trap Hours
A	Dec-14	5.13	6.21	10.29	15.35	15.41	10.48	4.87	47	107
A	Jan-15	2.06	3.81	7.04	13.98	21.98	9.1	7.07	68	180
A	Feb-15	3.24	3.53	7.65	12.01	13.73	7.98	5.01	51	149
A	Mar-15	1.88	3.87	5.92	7.35	10.64	5.84	2.98	40	168
A	Apr-15	1.02	1.75	9.11	11.47	13.02	7.3	5.2	54	182
A	May-15	1.19	7.25	9.98	10.31	23.46	9.81	6.43	75	185
A	Jun-15	2.01	4.39	6	8.23	16.18	7.32	5.11	58	190
A	Jul-15	2.96	10.5	13.8	18.62	23.63	14.02	6.93	77	115
A	Aug-15	2.22	4.68	11.11	17.84	21.22	11.41	9.01	43	89
A	Sep-15	3.81	6.22	8.62	9.08	9.54	7.33	3.08	23	75
A	Oct-15	4.71	4.93	5.14	5.36	5.57	5.14	0.61	11	51
A	Nov-15	3.83	4.48	6.07	7.82	8.93	6.23	2.37	27	103
A	Dec-15	0.94	0.95	2.37	4.81	7.92	3.4	3.3	14	100
A	Jan-16	1.01	4.08	7.22	9.74	10.92	6.59	4.46	28	100
A	Feb-16	4	4.75	5.5	7.25	11	6.5	3.11	26	24
B	Dec-14	0	1.14	2.67	6.13	12.74	4.28	4.23	46	265
B	Jan-15	1	1.97	2.95	3.42	3.89	2.61	1.48	8	73
B	Feb-15	1.2	3	4.8	4.8	4.8	3.6	2.08	9	40
B	Mar-15	2.49	3.7	4.91	6.17	7.44	4.95	2.48	12	58
B	Apr-15	1.48	3.71	5.94	7.43	8.91	5.45	3.74	11	32
B	May-15	1.25	4.07	6.23	7.79	8.8	5.63	3.31	18	77
B	Jun-15	0.96	1.15	4.74	6.71	9.68	4.66	3.21	40	182
B	Jul-15	2.04	3.84	5.09	5.35	6.09	4.58	1.43	36	189
B	Aug-15	0	0.82	2.16	3.23	3.24	1.89	1.61	7	89
C	Jun-15	1.99	2.32	2.65	2.98	3.31	2.65	0.93	8	68
C	Jul-15	7.32	7.62	7.92	8.22	8.51	7.92	0.85	13	39
C	Aug-15	3.09	3.09	3.09	3.09	3.09	3.09	NA	3	23
C	Sep-15	3.01	3.01	3.01	3.01	3.01	3.01	NA	3	24
C	Oct-15	8.02	8.02	8.02	8.02	8.02	8.02	NA	8	24
C	Nov-15	2.9	2.9	2.9	2.9	2.9	2.9	NA	3	25

Table B-22 CPUE (Crab per 24 hours) Summary Statistics for Dungeness Crab in Trap Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Trap Hours
C	Dec-15	5.49	5.49	5.49	5.49	5.49	5.49	NA	7	31
C	Jan-16	4.41	4.41	4.41	4.41	4.41	4.41	NA	5	27
C	Feb-16	3	3	3	3	3	3	NA	3	24
D	Dec-14	1.12	6.13	8.34	12.21	14.4	8.52	4.93	46	86
D	Jan-15	1	5.77	7.49	9.82	16.16	7.98	4.84	52	159
D	Feb-15	2.36	5.93	6.81	7.95	10.37	6.76	2.52	47	165
D	Mar-15	3.12	4.28	5.61	11.17	16.12	7.88	5.28	43	132
D	Apr-15	7.62	8.48	9.78	10.47	12.87	9.8	1.89	51	126
D	May-15	1.31	5.08	6.76	9.63	10.62	6.76	3.53	37	130
D	Jun-15	3.32	4.9	5.43	9.09	13.93	6.83	3.33	105	419
D	Jul-15	6.44	9.61	12.09	12.87	25.91	12.28	4.94	135	265
D	Aug-15	8.43	8.84	12.68	16.47	18.17	12.87	4.46	72	135
D	Sep-15	6.03	6.8	10.08	11.22	14.06	9.59	3.18	57	119
D	Oct-15	5.93	6.74	8.52	10.38	18.77	9.81	4.77	60	123
D	Nov-15	1.97	4.26	6.02	7.63	7.94	5.63	2.4	34	145
D	Dec-15	3.2	6.39	7.71	10.15	15.79	8.55	4.34	64	179
D	Jan-16	3.61	8.78	10.07	13.05	13.88	10	3.83	61	149
D	Feb-16	4	8.75	11.5	13.5	14	10.5	3.89	63	24
E	Dec-14	2.41	9.02	12.14	14.3	17.01	11.12	5.2	55	119
E	Jan-15	1.09	7.05	9.59	11.7	12.49	8.56	4.28	48	134
E	Feb-15	12.62	13.01	14.17	15.85	17.92	14.65	2.12	93	176
E	Mar-15	4.93	5.74	7.19	10.26	16.12	8.66	4.26	50	159
E	Apr-15	5.24	6.41	8.34	11.34	12.45	8.75	3.04	48	133
E	May-15	5.03	6.06	9.26	15.53	18.34	10.75	5.78	61	159
E	Jun-15	5.39	6.5	8.32	9.83	18.46	9.45	4.75	54	136
E	Jul-15	8.26	10.12	11.75	14.17	21.71	13	4.83	59	96
E	Aug-15	13.36	19.58	25.79	26.47	27.15	22.1	7.6	61	66
E	Sep-15	4.86	7.78	10.7	12.71	14.71	10.09	4.95	31	49
E	Oct-15	4.88	6.27	7.66	8.79	9.92	7.48	2.52	23	74
E	Nov-15	3.88	4.85	5.82	6.75	7.69	5.8	1.9	18	50

Table B-22 CPUE (Crab per 24 hours) Summary Statistics for Dungeness Crab in Trap Catches

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Trap Hours
E	Dec-15	6.03	8.01	10	10.06	10.12	8.72	2.33	26	72
E	Jan-16	4.55	6.61	8.66	9.07	9.48	7.56	2.64	26	82
E	Feb-16	3	6	9	12	15	9	6	27	24

NOTE:
Minimum, Q1, median, Q3, maximum, mean, and standard deviation are calculated for 24 hours soak periods. Individuals caught and trap hours are the monthly totals.

B.3 FOCAL SPECIES DEMOGRAPHICS

Table B-23 Demographic Summary Statistics for Pacific Herring Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Feb-15	52	59	65	68	83	63.69	6.92	62	31
A	Mar-15	66	70	74	84	94	76	8.01	19	19
A	Apr-15	79	79	79	79	79	79	NA	1	1
A	May-15	78	87	93.5	101.75	116	95.25	15.9	4	4
A	Jun-15	75	81	86	90.5	95	85.5	8.54	4	4
A	Jul-15	32	43	53	59	166	55.11	19.58	454	110
A	Aug-15	50	69.5	74	77	112	73.87	12.89	88	32
A	Nov-15	30	84.25	85.5	91.5	96	82.5	16.34	34	15
A	Feb-16	64	77	87	93	112	85.58	11	23	20
B	Dec-14	55	61.25	63	66	70	62.8	4.8	11	11
B	Jan-15	52	62.5	67	69.5	77	65.73	7.02	12	12
B	Feb-15	49	59	63	67.5	76	63.33	6.15	213	55
B	Mar-15	62	63.5	65	76	87	71.33	13.65	3	3
B	Apr-15	73	76.75	79.5	83.75	88	80.17	5.56	6	6
B	May-15	84	123	139	141.5	158	129.5	24.31	8	8
B	Jul-15	36	36	36	36	36	36	NA	1	1
C	May-15	70	81	85	134	160	102.22	35.01	9	9
C	Jun-15	75	94	106	116	147	108.4	19.21	25	25
C	Jul-15	51	80.25	100	105.25	119	92.78	20.05	18	18

Table B-23 Demographic Summary Statistics for Pacific Herring Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
C	Sep-15	30	30	30	30	30	30	NA	1	1
A, B, C, D, E, F	Apr-15	83	83	83	83	83	83	NA	1	1
A, B, C, D, E, F	May-15	36	87	125.5	154.5	257	130.64	50.2	125	94
A, B, C, D, E, F	Jun-15	30	38.25	106	145	247	97.17	55.7	1425	72
A, B, C, D, E, F	Jul-15	30	46	57.5	74.75	153	70.22	34.46	265	49
G	Jun-15	117	117	117	117	117	117	NA	1	1
G	Jul-15	71	98.75	105	112.75	122	104.5	13.64	12	12
G	Nov-15	65	70	74.5	79.75	87	75.17	8.18	6	6
H	Jul-15	34	37	43	57	75	47.31	12.57	384	65
H	Aug-15	31	40	46	56	93	49.72	14.3	131	131
H	Sep-15	49	63	70	75	80	67.4	12.05	5	5
H	Jan-16	65	65	65	65	65	65	NA	1	1
I	Jun-15	83	85.75	88.5	91.25	94	88.5	7.78	2	2
I	Jul-15	32	37	42	50	115	49.29	20.5	632	45
I	Aug-15	34	34	34	34	34	34	NA	1	1
I	Sep-15	45	45	45	45	45	45	NA	1	1

Table B-24 Demographic Summary Statistics for Surf Smelt Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Jan-15	41	43	45	48	60	46.14	4.3	178	29
A	Feb-15	41	43	46	49	161	49.13	17.76	581	83
A	Mar-15	41	45	50	119.75	150	74	39.07	1,455	106
A	Apr-15	42	46	48	52.25	120	60.18	26.62	1,729	60
A	May-15	44	51	54	58	161	69.88	35.97	1,119	81
A	Jun-15	59	73	89	97	182	91.76	26.89	41	41
A	Jul-15	72	88	91	98.25	162	99.94	21.97	438	104
A	Aug-15	89	95.5	100	106	149	103.51	12.86	294	43
A	Sep-15	44	44	44	44	44	44	NA	1	1
A	Oct-15	41	41.75	45	50	56	46.75	6.9	4	4
A	Nov-15	41	43	45	46	55	44.75	2.68	168	55
A	Jan-16	42	44.25	45	45	52	45.6	3.34	10	10
B	Dec-14	41	44	50	53.5	74	49.61	7.32	32	31
B	Jan-15	41	44	47	49.25	62	47.5	4.76	800	52
B	Feb-15	42	45	47	51	60	47.98	4.08	452	63
B	Mar-15	44	48	51	58.5	149	65.96	31.69	252	51
B	Apr-15	45	49	55	56	65	53.69	5.27	74	13
B	May-15	49	53	114	146	180	102.05	45.71	84	37
B	Jun-15	56	59.25	65.5	83.75	208	90.33	58.85	1,006	6
C	May-15	52	66	145	152.25	160	117.97	44.49	109	30
C	Jun-15	59	124.25	134	148.25	165	125.15	33.46	20	20

Table B-24 Demographic Summary Statistics for Surf Smelt Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
C	Jul-15	75	92.5	105	141	182	117.6	31.18	15	15
C	Aug-15	87	94.5	98	100.5	115	98.36	7.38	47	11
C	Sep-15	105	105	105	105	105	105	NA	1	1
A, B, C, D, E, F	Mar-15	NA	NA	NA	NA	NA	NA	NA	4	0
A, B, C, D, E, F	Apr-15	42	46	52	56	122	64.85	29.96	17	13
A, B, C, D, E, F	May-15	45	51.75	68.5	144.25	165	93.43	45.19	221	148
A, B, C, D, E, F	Jun-15	52	71	87	139	165	100.06	35.55	542	236
A, B, C, D, E, F	Jul-15	41	70.25	92.5	150.5	184	106.03	42.86	122	98
A, B, C, D, E, F	Aug-15	145	145	145	145	145	145	NA	1	1
A, B, C, D, E, F	Nov-15	42	42	42	42	42	42	NA	1	1
G	Jun-15	43	63.5	86	138	158	100.87	41.72	143	23
G	Jul-15	86	95	99	117.75	145	108.62	20.64	16	16
G	Aug-15	93	101	106	147.75	163	118.59	25.81	56	34
G	Sep-15	103	104.5	107.5	111.25	115	108.25	5.38	4	4
G	Nov-15	42	42.5	43	45.5	55	44.71	3.26	223	31
H	Jun-15	42	63.75	87	98.75	172	87.27	28.5	281	44
H	Jul-15	62	73	85	106	152	94.55	27.36	104	73
H	Aug-15	94	147	149	158	167	146.91	19.44	11	11
H	Sep-15	49	99.25	118.5	125.25	143	105.92	29.86	41	36
H	Nov-15	41	43	44	46	59	45.98	4.78	71	41
H	Dec-15	43	46	48	52.75	63	49.26	4.43	476	50

Table B-24 Demographic Summary Statistics for Surf Smelt Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
H	Jan-16	41	45	47	53	150	52.3	18.73	1,621	37
H	Feb-16	111	116	121	135	149	127	19.7	3	3
I	Jun-15	44	63	80	98.5	147	84.86	34.02	7	7
I	Jul-15	61	70	75	102.25	164	89.28	30.31	38	36
I	Aug-15	50	110.5	144.5	153	173	127.83	44.99	6	6
I	Sep-15	60	60	60	60	60	60	NA	1	1
I	Nov-15	41	42	45	51	148	49.85	18.54	218	33
I	Dec-15	42	47	48	52	65	49.85	5.54	13	13
I	Jan-16	54	56	57	62.5	105	63	14.59	19	11

NOTE:
"NA" across a row indicates individuals were caught, but not measured.

Table B-25 Demographic Summary Statistics for Chinook Salmon Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Jun-15	105	106.25	107.5	108.75	110	107.5	3.54	2	2
A	Jul-15	83	83	83	83	83	83	NA	1	1
B	Jun-15	65	87	95	103	106	91.11	15.92	9	9
B	Aug-15	77	77	77	77	77	77	NA	1	1
C	May-15	88	88	88	88	88	88	NA	1	1
C	Jun-15	86	86	86	86	86	86	NA	1	1
C	Aug-15	56	64	67	73	143	78.11	27.45	9	9
C	Sep-15	72	75.5	79	80	81	77.33	4.73	3	3
A, B, C, D, E, F	May-15	76	90.5	96	108.5	128	100	16.83	8	8
A, B, C, D, E, F	Jun-15	97	100	103	106	109	103	8.49	2	2
A, B, C, D, E, F	Jul-15	124	124	124	124	124	124	NA	1	1
G	Jun-15	86	87.5	91	96.5	104	93	8.08	4	4
G	Jul-15	117	123.25	129.5	135.75	142	129.5	17.68	2	2
G	Feb-16	43	43	43	43	43	43	NA	1	1
H	Jun-15	93	106	109	114	129	110.2	13.07	5	5
H	Jul-15	45	91.5	95	96	104	91	15.97	11	11
H	Aug-15	43	60	66	73	145	70.53	19.96	34	34
I	Jun-15	36	66.5	70	82.5	137	78.37	25.25	20	19
I	Jul-15	91	92.5	94	96	98	94.33	3.51	3	3
I	Aug-15	104	104	104	104	104	104	NA	1	1
I	Sep-15	52	74.25	80	120	149	92.8	32.93	10	10

Table B-25 Demographic Summary Statistics for Chinook Salmon Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
I	Nov-15	60	71.5	83	87.5	92	78.33	16.5	3	3
I	Feb-16	44	77.5	111	112.5	114	89.67	39.58	3	3

Table B-26 Demographic Summary Statistics for Chum Salmon Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Mar-15	44	44	44	44	44	44	NA	1	1
A	Apr-15	40	45.5	49	50.5	60	48.33	4.91	15	15
A	May-15	43	47.75	52.5	57.25	62	52.5	13.44	2	2
B	Dec-14	41	41	41	41	41	41	NA	1	1
B	Feb-15	42	42.75	43	43.25	44	43	0.82	4	4
B	Mar-15	42	43	44	44	45	43.6	1.14	6	5
B	Apr-15	44	48	50	53	63	50.59	3.71	144	61
B	May-15	41	47	53	56	64	51.58	6.68	41	33
B	Jun-15	55	56	57	58	59	57	2	3	3
C	May-15	47	48	49	52	55	50.33	4.16	3	3
A, B, C, D, E, F	May-15	38	46.25	51	52.75	54	48.67	6.12	6	6
A, B, C, D, E, F	Jun-15	40	51.75	63.5	75.25	87	63.5	33.23	2	2
H	Jan-16	43	43	43	43	43	43	NA	1	1
I	Jun-15	28	30.25	33	35.75	38	33	4.4	4	4
I	Feb-16	39	40.25	41.5	42.75	44	41.5	3.54	2	2

Table B-27 Demographic Summary Statistics for Coho Salmon Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Jun-15	51	51	51	51	51	51	NA	1	1
A	Jul-15	90	92	94	96	98	94	5.66	2	2
B	Jun-15	49	69.5	90	93	96	78.33	25.58	3	3
B	Jul-15	47	53	59	82.5	128	72.14	31.58	7	7
B	Aug-15	65	76	85	95	106	85.43	15.67	7	7
B	Sep-15	58	66.5	88	91	103	80.57	16.81	7	7
C	Jun-15	81	87.25	91.5	92.75	97	90	5.66	6	6
C	Jul-15	50	54	63	98.5	162	82.86	45.01	7	7
C	Aug-15	61	75	89	94	99	83	19.7	3	3
A, B, C, D, E, F	May-15	82	104	109	125	149	112.18	17.93	18	17
A, B, C, D, E, F	Jun-15	83	99.25	104.5	111.75	126	105.27	10.33	22	22
A, B, C, D, E, F	Jul-15	113	114.5	119	126.5	137	122	10.89	4	4
G	Jun-15	76	76	76	76	76	76	NA	1	1
G	Aug-15	65	65	65	65	65	65	NA	1	1
H	Jun-15	36	38.5	52	96.5	117	66.89	30.59	19	19
H	Jul-15	41	48.75	55	64.25	116	63	23.37	13	12
H	Sep-15	65	69	78	84	90	77	9.78	7	7
I	Jun-15	32	36	43	73	118	56.9	25.86	50	29
I	Jul-15	38	49	53	58	98	53.9	12.17	21	21
I	Aug-15	60	64	68	73	83	69.44	7.09	9	9

Table B-28 Demographic Summary Statistics for Pink Salmon Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Feb-15	35	35	35	35	35	35	NA	1	1
A	Mar-15	34	35	37	37	37	36	1.29	7	7
A	Apr-15	30	35	36	37	39	35.81	2.06	549	54
A	May-15	34	34	34	34	34	34	0	2	2
B	Dec-14	31	31	31	31	31	31	0	2	2
B	Jan-15	31	32	32	32.75	35	32.5	1.38	7	6
B	Feb-15	32	34	35	36	37	34.8	1.92	5	5
B	Mar-15	31	34	35	36	46	35.62	2.85	24	21
B	Apr-15	32	36	37	39	46	37.81	3.33	21	21
A, B, C, D, E, F	Apr-15	32	32	33	35	38	34	2.83	4	4
A, B, C, D, E, F	May-15	34	34.75	36.5	38.25	39	36.5	2.38	4	4
G	Feb-16	32	32.5	33	33.5	34	33	1	3	3
H	Jun-15	34	34	34	34	34	34	NA	1	1
H	Feb-16	33	33	33	33	33	33	NA	1	1
I	Feb-16	33	33	33	33	33	33	NA	1	1

Table B-29 Demographic Summary Statistics for Sockeye Salmon Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
B	May-15	62	75.75	78	84	97	80.3	8.43	20	20
B	Jun-15	91	91	91	91	91	91	NA	1	1
C	May-15	81	81	81	81	81	81	NA	1	1
C	Jun-15	62	72.5	83	83.5	84	76.33	12.42	3	3
C	Jul-15	49	49	49	49	49	49	NA	1	1
A, B, C, D, E, F	May-15	64	81	83	86	115	85.07	9.4	47	43
A, B, C, D, E, F	Jun-15	72	81	83	89	93	83.82	5.84	17	17
A, B, C, D, E, F	Jul-15	64	97.75	109	116.25	138	105	30.56	4	4
G	Jun-15	85	85.5	86	86.5	87	86	1	3	3
H	Jun-15	84	88.5	90.5	92.75	98	90.75	5.74	4	4
I	Jun-15	63	77	88	93	104	84.89	12.49	9	9

Table B-30 Demographic Summary Statistics for English Sole Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Mar-15	178	178	178	178	178	178	NA	1	1
A	Jun-15	70	115	151	208	275	159.1	56.31	23	21
A	Jul-15	40	66.5	86	114.75	296	100.29	48.71	70	70
A	Aug-15	35	51	62	133.5	310	100.12	68.77	112	84
A	Nov-15	78	78	78	78	78	78	NA	1	1
A	Jan-16	68	79.25	85	112.25	241	112.38	60.95	8	8
A	Feb-16	83	85.5	87	89.5	111	90.14	9.6	7	7
B	Apr-15	47	52	64	72	85	63.11	13.04	9	9
B	May-15	36	71.25	93	122	315	105.44	49.26	117	54
B	Jun-15	72	76.25	80.5	84.75	89	80.5	12.02	2	2
B	Jul-15	32	72.5	82.5	97.5	301	93.32	46.63	47	38
B	Aug-15	42	49	58	71.5	121	67.27	26.79	15	15
B	Sep-15	72	74	76	80	84	77.33	6.11	3	3
C	May-15	33	79	95	122	221	105.57	44.71	23	21
C	Jun-15	85	124	156	188	278	164.5	67.86	6	6
C	Jul-15	41	82	97	115	217	96.16	30.33	57	49
C	Aug-15	119	142	177	194.25	215	170.25	31.94	17	12
C	Sep-15	83	91.5	100	106.5	113	98.67	15.04	3	3
A, B, C, D, E, F	May-15	202	202	202	202	202	202	NA	1	1
A, B, C, D, E, F	Jul-15	98	98	98	98	98	98	NA	1	1

Table B-30 Demographic Summary Statistics for English Sole Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
G	Jul-15	30	46.25	69	99.75	174	75.65	35.2	88	66
G	Aug-15	31	45	54	62.5	92	54.46	13.21	79	59
G	Sep-15	36	47	55	65	89	57.16	12.73	41	31
G	Nov-15	45	56	65	77	99	67.65	15.07	24	23
H	Jul-15	75	78	87	93.75	99	86.5	9.89	6	6
H	Aug-15	44	57.5	64	75.5	246	72.68	40.11	26	22
H	Sep-15	35	59.75	66	73.5	98	66.38	14.1	16	16
H	Feb-16	87	87	87	87	87	87	NA	1	1
I	Jun-15	91	93.25	95.5	97.75	100	95.5	6.36	2	2
I	Jul-15	40	45.25	88	110	173	85.21	39.36	14	14
I	Aug-15	34	44.5	55.5	57.75	90	54	14.26	14	14
I	Sep-15	47	54	61	65	76	60.76	7.02	68	33
I	Nov-15	55	63	72	75	92	70.73	12.47	11	11
I	Dec-15	55	62	67	73	86	68.29	10.67	7	7

Table B-31 Demographic Summary Statistics for Starry Flounder Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Jan-15	195	197	199	200	201	198.33	3.06	3	3
A	Feb-15	186	230	261	296	310	260	41.26	10	10
A	Mar-15	127	233.25	270	288.75	360	260.06	52.63	34	34
A	Apr-15	184	211.5	225	243.5	290	229.64	31.21	11	11
A	May-15	76	173.25	198.5	259.75	345	213.98	63.1	56	44
A	Jun-15	100	180	210	227	372	208.51	41.68	183	177
A	Jul-15	72	171	202	223	511	204.97	60.15	108	97
A	Aug-15	118	188.5	208.5	235	296	209.81	37.96	36	36
A	Sep-15	129	163	178	190	239	179.03	23.75	46	31
A	Oct-15	222	250.25	278.5	306.75	335	278.5	79.9	2	2
A	Jan-16	195	200	205	210	215	205	14.14	2	2
B	Dec-14	265	265	265	265	265	265	NA	1	1
B	Jan-15	75	81	87	87.5	88	83.33	7.23	3	3
B	Feb-15	76	77	78	79.5	81	78.33	2.52	3	3
B	Mar-15	58	84	92.5	147.75	218	118.25	50.07	12	12
B	Apr-15	82	91	107.5	128.5	250	128	62.7	6	6
B	May-15	63	91	107	132.75	221	114.05	33.34	74	44
B	Jun-15	65	90.25	115	150.5	251	123.34	39.56	76	74
B	Jul-15	76	104.5	118.5	145	196	125.11	28.92	144	72
B	Aug-15	75	95	105	126.5	215	115.77	32.23	54	35
B	Sep-15	44	46	56.5	65.25	106	62.07	19.99	14	14

Table B-31 Demographic Summary Statistics for Starry Flounder Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
C	May-15	57	111	128	165	435	145	67.15	45	41
C	Jun-15	100	116	138	146	440	165.11	105.35	9	9
C	Jul-15	71	103.75	136.5	188.5	431	178.27	109.48	26	26
C	Aug-15	80	99	139	143	195	131.2	44.52	9	5
C	Sep-15	128	168.5	209	249.5	290	209	114.55	2	2
A, B, C, D, E, F	May-15	103	150	178	208	270	175.54	47.8	14	13
A, B, C, D, E, F	Jun-15	30	100	150	181.5	420	152.32	77.12	32	31
A, B, C, D, E, F	Jul-15	30	90	160	225	270	155	106.3	4	4
G	Jun-15	84	157.75	181.5	206.5	430	183.64	57.08	42	42
G	Jul-15	129	186	202	222.5	520	208.14	51.94	77	66
G	Aug-15	187	195	215	225	310	220.11	36.7	9	9
G	Sep-15	201	213.75	226.5	239.25	252	226.5	36.06	2	2
G	Feb-16	286	286	286	286	286	286	NA	1	1
H	Jun-15	59	75	93	136	221	107.99	41.62	193	103
H	Jul-15	45	83	98	143	220	112.05	35.03	235	148
H	Aug-15	40	87.75	120.5	164.25	214	128.34	46.79	216	56
H	Sep-15	32	85	97	119	230	106.11	39.76	92	53
H	Nov-15	38	87.5	105	140.5	170	108.86	34.03	42	35
H	Dec-15	38	81	89	136.5	168	106.87	37.72	15	15
H	Feb-16	34	76	102.5	122	189	102.28	37.68	125	68
I	Jun-15	63	85.25	132	154	198	122.82	38.75	66	62

Table B-31 Demographic Summary Statistics for Starry Flounder Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
I	Jul-15	72	91	102	140	240	116.21	33.25	170	97
I	Aug-15	55	88	95	154	203	114.95	45.98	21	21
I	Sep-15	36	96	130	163	191	126.64	41.09	30	25
I	Dec-15	47	80.5	98	110.25	160	98.67	37.98	6	6
I	Jan-16	57	69.75	87	99.75	119	86.33	23.15	6	6
I	Feb-16	38	64.25	74.5	88.75	167	78.29	25.01	40	34

Table B-32 Demographic Summary Statistics for Fish Larvae Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Jan-15	38	38.5	39	39.5	40	39	1.41	2	2
A	Feb-15	37	38	38.5	40	40	38.7	1.25	10	10
A	Mar-15	38	39	40	40	40	39.33	1.15	3	3
A	Apr-15	38	38.5	39	39.5	40	39	1.41	2	2
A	May-15	38	38	38	38	38	38	NA	1	1
A	Jun-15	25	25	25	29.5	34	28	5.2	3	3
A	Jul-15	20	23.75	27.5	31.25	35	27.5	10.61	103	2
A	Aug-15	NA	NA	NA	NA	NA	NA	NA	205	0
A	Sep-15	37	37	37	37	37	37	NA	1	1
A	Nov-15	31	36	39	40	40	37.92	2.43	24	24
A	Feb-16	35	46	46	51	58	47	5.74	21	21
B	Dec-14	38	38	38	38.5	40	38.43	0.79	7	7
B	Jan-15	39	39	39	39.75	40	39.33	0.52	6	6
B	Feb-15	40	40	40	40	40	40	NA	1	1
B	Mar-15	35	35	35	35	35	35	NA	1	1
B	Jul-15	20	20	20	20	20	20	NA	16	1
A, B, C, D, E, F	Feb-15	NA	NA	NA	NA	NA	NA	NA	2	0
A, B, C, D, E, F	May-15	20	20	20	30	44	25.73	7.74	59	30
A, B, C, D, E, F	Jun-15	20	26.5	33	35	36	30.27	6.18	2,680	11
A, B, C, D, E, F	Jul-15	20	25	29	38	75	31.61	9.95	1,595	36
A, B, C, D, E, F	Aug-15	NA	NA	NA	NA	NA	NA	NA	105	0
A, B, C, D, E, F	Nov-15	35	35.5	36	36.5	37	36	1.41	2	2
A, B, C, D, E, F	Feb-16	20	26	32	38	44	32	16.97	2	2
G	Jun-15	26	32	35	37	44	34.62	4.3	285	21

Table B-32 Demographic Summary Statistics for Fish Larvae Fork Length (mm)

Survey Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
G	Jul-15	25	25	25	28.75	40	28.75	7.5	412	4
G	Aug-15	NA	NA	NA	NA	NA	NA	NA	439	0
G	Sep-15	NA	NA	NA	NA	NA	NA	NA	671	0
G	Nov-15	39	39.25	39.5	39.75	40	39.5	0.71	2	2
G	Feb-16	39	43	44	46	49	43.98	2.35	275	51
H	Jun-15	32	33	35	37	40	35.51	2.39	102	35
H	Jul-15	NA	NA	NA	NA	NA	NA	NA	3,464	0
H	Aug-15	NA	NA	NA	NA	NA	NA	NA	10	0
H	Sep-15	40	40	40	40	40	40	0	55	5
H	Nov-15	34	36.5	39	40	40	38.08	2.43	12	12
H	Dec-15	38	38.5	39	39.5	40	39	1.41	2	2
H	Jan-16	35	37	39	39.5	40	38	2.65	3	3
H	Feb-16	45	49	51	55	62	52.09	4.64	748	53
I	Jun-15	30	34	36	36	39	34.92	2.72	143	13
I	Jul-15	NA	NA	NA	NA	NA	NA	NA	1,444	0
I	Aug-15	35	35	35	35	35	35	NA	2	1
I	Sep-15	40	40	40	40	40	40	NA	1	1
I	Nov-15	39	39.25	39.5	39.75	40	39.5	0.71	2	2
I	Dec-15	40	40	40	40	40	40	NA	1	1
I	Feb-16	41	48	53	56	65	52.27	4.95	147	37

NOTE:
"NA" across a row indicates individuals were caught, but not measured.

Table B-33 Demographic Summary Statistics for Dungeness Crab Carapace Width (mm)

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
A	Dec-14	132	153.5	159	161.5	195	157.74	12.04	47	47
A	Jan-15	146	156	165	178	190	166.74	12.41	68	68
A	Feb-15	135	157	165	173.5	185	165.02	11.44	51	51
A	Mar-15	135	148.75	157	163	201	157.4	13.4	40	40
A	Apr-15	140	149.25	158.5	164	193	159	12.48	54	54
A	May-15	106	146	155	165	200	156.13	15.75	75	75
A	Jun-15	134	151.25	157.5	163	191	158.17	11.36	58	58
A	Jul-15	129	150	157	163	208	157.36	12.41	77	77
A	Aug-15	123	149	153	161	180	153.86	10.5	43	43
A	Sep-15	123	150	157	162	194	155.47	12.95	68	68
A	Oct-15	142	152	158	164	179	158.64	10.61	11	11
A	Nov-15	143	156	164	170	185	164.26	11.01	27	27
A	Dec-15	NA	NA	NA	NA	NA	NA	NA	14	0
A	Jan-16	139	152.75	160	176.25	195	163.96	14.35	28	28
A	Feb-16	152	160.5	166	174.75	190	167.85	10.11	26	26
B	Dec-14	144	163	171	180.75	212	170.76	13.42	46	46
B	Jan-15	136	147	154.5	158.25	165	152.62	9.12	8	8
B	Feb-15	150	159	168	175	189	167.78	13.99	9	9
B	Mar-15	133	152.25	159	176	192	162.67	17.39	12	12

Table B-33 Demographic Summary Statistics for Dungeness Crab Carapace Width (mm)

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
B	Apr-15	142	159.5	164	177.5	192	168.64	14.94	11	11
B	May-15	131	149.75	161	169.75	177	159.39	12.31	18	18
B	Jun-15	132	161	165.5	174	203	167.5	11.93	40	40
B	Jul-15	132	157.75	162	168.5	197	163.83	14.99	36	36
B	Aug-15	139	146	162	165	176	157	13.74	7	7
C	Jun-15	155	163.5	166	177.25	178	168	8.85	8	8
C	Jul-15	141	152	157	161	171	156.08	8.81	13	13
C	Aug-15	154	157.5	161	161.5	162	159	4.36	3	3
C	Sep-15	154	154.5	155	157.5	160	156.33	3.21	3	3
C	Oct-15	152	154.75	158	163.75	187	161.62	11.36	8	8
C	Nov-15	160	161	162	165.5	169	163.67	4.73	3	3
C	Dec-15	147	153	156	161	165	156.57	6.43	7	7
C	Jan-16	143	154	157	173	187	162.8	17.27	5	5
C	Feb-16	152	155.5	159	163.5	168	159.67	8.02	3	3
D	Dec-14	136	149	157.5	165	190	158.67	13.1	46	46
D	Jan-15	133	152.75	161.5	170.25	191	162.23	14.27	52	52
D	Feb-15	134	154	161	173	198	162.98	14.18	47	47
D	Mar-15	129	155	160	165	187	159.3	11.75	43	43
D	Apr-15	131	153	160	169	188	160.55	12.15	51	51
D	May-15	126	142	154	162	187	153.24	13.98	37	37

Table B-33 Demographic Summary Statistics for Dungeness Crab Carapace Width (mm)

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
D	Jun-15	134	154	163	170	195	162.59	12.13	105	105
D	Jul-15	116	148	155	161	178	153.71	11.77	135	135
D	Aug-15	131	150.75	160	163.25	190	157.93	12.24	72	72
D	Sep-15	124	153	158	161	185	158.32	11.1	57	57
D	Oct-15	143	155	159	164	190	160.57	9.48	60	60
D	Nov-15	140	152.25	159.5	163.75	193	159.76	11.91	34	34
D	Dec-15	136	151.75	156.5	163	182	157.22	9.33	64	64
D	Jan-16	149	161	165	180	197	168.92	12.5	61	61
D	Feb-16	142	157	165	176	197	166.33	12.53	63	63
E	Dec-14	137	149	160	164	194	159.31	12.59	55	55
E	Jan-15	134	162.75	173	179.25	199	170.52	14.03	48	48
E	Feb-15	134	161	170	177	198	169.02	12.85	93	93
E	Mar-15	130	143.25	150	157	184	151.34	12.25	50	50
E	Apr-15	129	148.5	155	164.25	197	155.79	14.28	48	48
E	May-15	128	142	150	155	175	149.67	9.88	61	61
E	Jun-15	133	152.25	160.5	166.75	185	159.61	11.01	54	54
E	Jul-15	133	145	151	156.5	178	151.36	8.62	59	59
E	Aug-15	134	152	154	162	192	156.8	10.92	61	60
E	Sep-15	120	138	149	157.5	183	148.16	15.33	31	31
E	Oct-15	126	145.5	155	164.5	188	155.83	14.96	23	23

Table B-33 Demographic Summary Statistics for Dungeness Crab Carapace Width (mm)

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Individuals Caught	Individuals Measured
E	Nov-15	142	152.75	159.5	163.5	170	157.67	7.83	18	18
E	Dec-15	NA	NA	NA	NA	NA	NA	NA	26	0
E	Jan-16	125	161.25	172.5	183.25	192	168.31	17.76	26	26
E	Feb-16	155	165.5	175	182.5	192	174.22	10.69	27	27

NOTE:
"NA" across a row indicates individuals were caught, but not measured.

Table B-34 Demographic Summary Statistics for Dungeness Crab Weight (g)

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Number Caught	Number Measured
A	Dec-14	280	415.5	525	567	887	516.79	129.59	47	47
A	Jan-15	389	508	578	733	850	611.94	132.92	68	68
A	Feb-15	346	529	595	683	859	602.98	119.44	51	51
A	Mar-15	333	424	507.5	566.5	1,066	522.38	144.69	40	40
A	Apr-15	349	438.5	506.5	573	970	526.31	135.41	54	54
A	May-15	155	409	469	578.5	1006	502.61	162.49	75	75
A	Jun-15	268	422	487.5	540.75	763	486.28	103.33	58	58
A	Jul-15	308	441	494	574	1,136	523.55	143.45	77	77
A	Aug-15	244	403	470	512.5	671	466.95	93.47	43	43
A	Sep-15	308	445	512	561	792	504.93	93.58	68	68
A	Oct-15	420	491	517	559.5	753	531.82	89.46	11	11
A	Nov-15	348	492	575	601	785	567.48	109.52	27	27
A	Dec-15	NA	NA	NA	NA	NA	NA	NA	14	0
A	Jan-16	312	475	591.5	693.5	930	596.07	149.27	28	28
A	Feb-16	443	515.5	601.5	683.75	898	614	120.89	26	26
B	Dec-14	345	559.75	628	706	1271	642.26	154.48	46	46
B	Jan-15	279	437.5	480.5	536.25	615	475.5	103.02	8	8
B	Feb-15	455	554	571	645	922	634.44	167.27	9	9
B	Mar-15	321	472.5	541.5	695.25	971	589	190.54	12	12
B	Apr-15	288	451	547	641	839	556.73	160.76	11	11
B	May-15	297	442.25	553	580	737	528.22	116.12	18	18

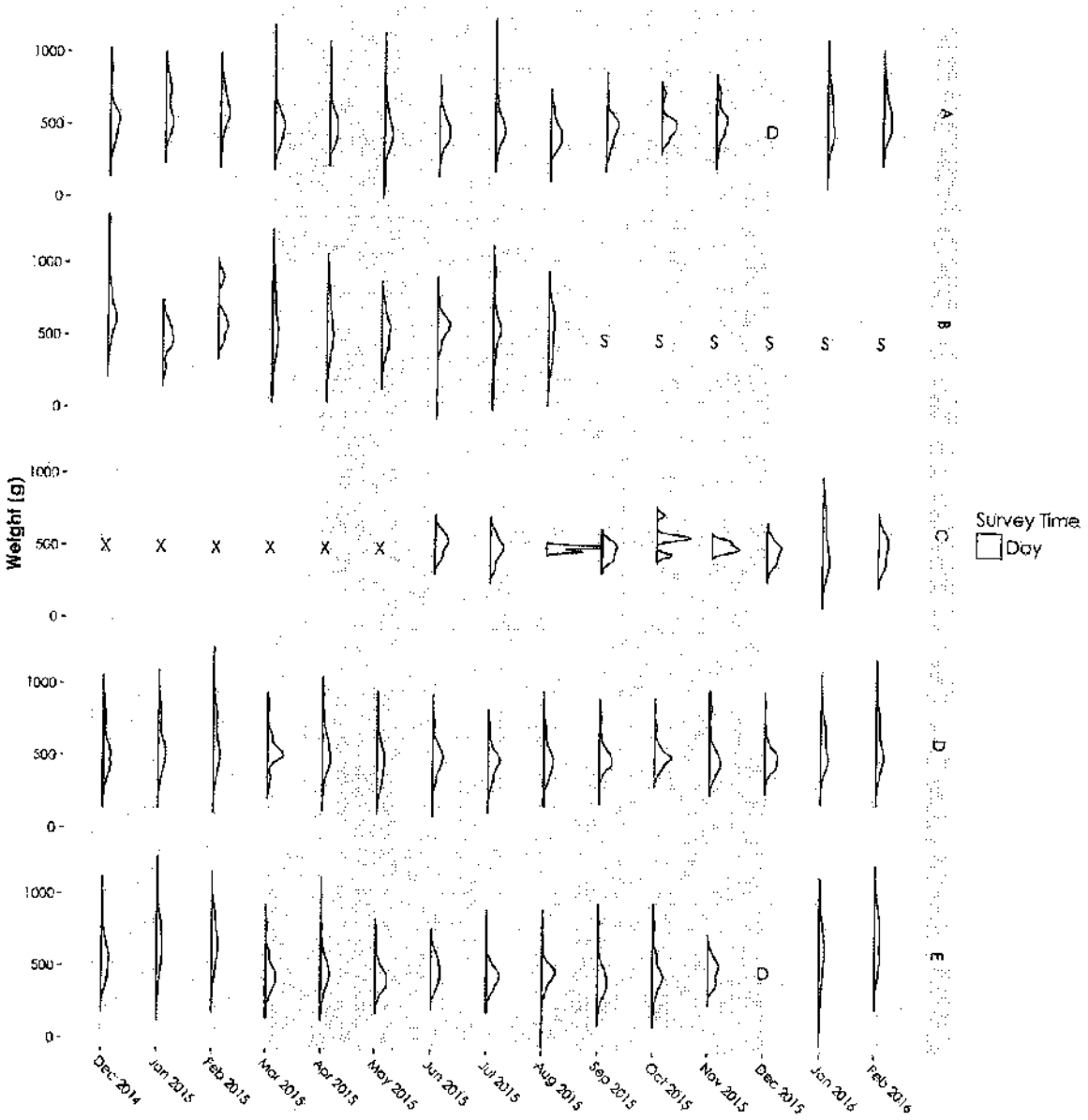
Table B-34 Demographic Summary Statistics for Dungeness Crab Weight (g)

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Number Caught	Number Measured
B	Jun-15	409	539	588	624	1,017	591.7	113.58	40	40
B	Jul-15	155	490.75	564	639.75	989	577.37	198.46	36	30
B	Aug-15	313	420.5	591	640.5	698	532	148.63	7	7
C	Jun-15	439	499	536	585	622	533.88	67.3	8	8
C	Jul-15	368	449	504	534	621	499.23	77.72	13	13
C	Aug-15	489	505	521	522	523	511	19.08	3	3
C	Sep-15	435	468	501	527.5	554	496.67	59.62	3	3
C	Oct-15	471	557.25	592	596.5	751	582.88	87.32	8	8
C	Nov-15	503	517	531	552	573	535.67	35.23	3	3
C	Dec-15	402	454	524	532.5	594	499	65.39	7	7
C	Jan-16	355	461	465	625	781	537.4	166.86	5	5
C	Feb-16	418	475.5	533	574	615	522	98.96	3	3
D	Dec-14	301	416.25	519.5	579.5	905	533.2	149.31	46	46
D	Jan-15	302	450.25	541.5	625.75	937	562.9	152	52	52
D	Feb-15	320	469	545	733	1,055	588.06	161.96	47	47
D	Mar-15	288	490	524	568.5	874	533.42	112.98	43	43
D	Apr-15	271	460.5	517	611.5	915	537.04	122.36	51	51
D	May-15	279	368	488	541	799	475.59	125.06	37	37
D	Jun-15	189	448	511	564	856	510.13	112.37	105	105
D	Jul-15	218	419	484	533.5	759	480.04	103.11	135	135
D	Aug-15	295	423.75	494.5	558.5	863	503.89	113.63	72	72
D	Sep-15	278	470	517	563	849	529.4	105.98	57	57

Table B-34 Demographic Summary Statistics for Dungeness Crab Weight (g)

Area	Month	Min	Q1	Median	Q3	Max	Mean	SD	Number Caught	Number Measured
D	Oct-15	386	490.25	523.5	568.5	864	538.52	88.98	60	60
D	Nov-15	372	458.5	512.5	570.75	879	530.91	126.88	34	34
D	Dec-15	361	471.75	523	566.75	904	530	88.46	64	64
D	Jan-16	369	514	606	711	958	617.21	130.63	61	61
D	Feb-16	390	519.5	581	752	1,039	623.6	150.46	63	63
E	Dec-14	323	453.5	545	612.5	971	547.84	133.66	55	55
E	Jan-15	335	549.25	652	771.75	1051	658.2	163.9	48	44
E	Feb-15	350	547	656	762	992	659.72	149.44	93	93
E	Mar-15	262	385	441.5	506.25	820	459.96	120.55	50	50
E	Apr-15	267	406.5	474	543.75	1000	487.38	137.88	48	48
E	May-15	277	370.75	424	471	751	433.1	87.8	61	60
E	Jun-15	324	422.75	487.5	554.5	671	486.04	88.78	54	54
E	Jul-15	283	406.5	459	497	835	453.08	86.56	59	59
E	Aug-15	150	437	481	525	833	483.02	110.73	61	61
E	Sep-15	247	366	427	491	835	445.81	119.95	31	31
E	Oct-15	252	423.5	470	554.5	826	492.78	137.56	23	23
E	Nov-15	387	427.5	515.5	555	640	502.5	77.95	18	18
E	Dec-15	NA	NA	NA	NA	NA	NA	NA	26	0
E	Jan-16	243	506	634.5	749	913	615.5	175.48	26	26
E	Feb-16	466	583	750	869.5	1030	720.59	156.9	27	27

NOTE:
"NA" across a row indicates individuals were caught, but not measured.



NOTES:
X = did not fish.
D = data deficient; cannot calculate kernel density (i.e., fewer than 3 data points).
S = Safety concerns; did not fish.
Green rectangle = open time of the commercial crab fishery in Area B.

Figure B-1 Weight Frequency Distribution for Dungeness Crab

B.4 SALMON SMOLT STOMACH CONTENTS FROM SEINES IN EACH SURVEY AREA

B.4.1 Survey Area A

A total of four salmon smolts (one Chinook and three coho) were captured in survey area A using beach and purse seines. Coho and Chinook salmon captured in survey area A had a relatively high proportion of stomach fullness (90 – 100%) and a high (80%) and low (25%) proportion of digested prey and materials in Chinook and coho salmon respectively.

Stomach contents of all salmon smolt species were dominated (in number and frequency) by crustacean planktonic prey, crustacean benthic prey, terrestrial insects, and small fish prey (Table B-35). Terrestrial insects and arachnids comprised a high numerical proportion of contents in stomachs of coho (64.7%) with none present in the Chinook salmon. Small fish prey were found in the one Chinook salmon stomach and 2 of the 3 coho salmon stomachs. Coho salmon fed primarily on insects and smaller numbers of decapods, and less frequently on amphipods, isopods, and small fish. Coho salmon had the largest number of prey per fish. None of the three salmon collected from survey area A had empty stomachs.

Table B-35 Percent by Number (% N) of Prey Organisms and Percent Frequency of Occurrence (% F) in Salmon Smolt Stomach Contents caught by Seine in Survey Area A

Stomach Content Prey Taxa	Salmon Smolts									
	Pink (n = 0)		Chinook (n = 1)		Chum (n = 0)		Coho (n = 3)		Sockeye (n = 0)	
	% N	% F	% N	% F	% N	% F	% N	% F	% N	% F
Crustacea (Planktonic)										
Euphausiacea (krill)	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Copepoda	-	-	0.0	0.0	-	-	2.9	33.3	-	-
Cladocera	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Decapoda	-	-	0.0	0.0	-	-	17.6	100.0	-	-
Crustacea (Benthic/Planktonic)										
Cumacea	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Cirripedia	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Amphipoda/Isopoda	-	-	0.0	0.0	-	-	5.9	66.7	-	-
Ostracoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Unknown Crustacea	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Insects/Arachnids	-	-	0.0	0.0	-	-	64.7	100.0	-	-
Pisces (fish)	-	-	100.0	100.0	-	-	5.9	66.7	-	-
Mollusca/Gastropoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Nematoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Nemertea	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Polychaeta	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Unknown Arthropod			0.0	0.0			0.0	0.0		
Non-food items	-	-	0.0	0.0	-	-	2.9	33.3	-	-
Undetermined materials	-	-	0.0	0.0	-	-	0.0	0.0	-	-
% Fullness (Median)	-		90		-		100		-	
% Digested (Median)	-		80		-		25		-	
Total prey items counted	-		6		-		34		-	
Prey items per fish	-		6		-		11.3		-	
Empty stomachs (%)	-		0		-		0		-	

NOTES:

%N Percent by number of prey relative to prey counted

%F Percent occurrence observed in stomach samples

B.4.2 Survey Area B

A total of 38 salmon smolts (one Chinook, two sockeye, and 35 coho) were captured in survey area B using beach and purse seines. Salmon captured in survey area B had a relatively high proportion of stomach fullness (60 – 95%) and digested prey and materials (70 – 90%).

Stomach contents of all salmon smolt species were dominated (in number and frequency) by crustacean planktonic prey, crustacean benthic prey, terrestrial insects, and small fish prey (Table B-36). Terrestrial insects and arachnids comprised a high numerical proportion of contents in stomachs of coho (53.1%) with lower in the one Chinook salmon (2.5%). Small fish prey were found in 1 of the 2 sockeye salmon stomachs and 20% (7 of 35) of coho salmon stomachs. Insects, arachnids, and small fish prey were not present in the Chinook salmon stomach. The Chinook salmon stomach contained mostly euphausiid prey (57.9%), whereas coho stomachs contained mostly insects and arachnids (53.1%) and sockeye stomachs contained mostly copepod (38.9%) and cladoceran (34.9%) zooplankton. The one Chinook salmon stomach contained euphausiids and smaller numbers of copepods, and fewer cirripedes, decopods, cumaceans, and insects. Coho stomachs contained more insects and arachnids, a smaller number of decapods, amphipods, isopods, and cumaceans, and less copepods, cirripedes and caldocerans. Sockeye stomachs contained primarily on copepods and cladocerans, and fewer decopods, euphausiids, cirripedes, amphipods, and isopods. Sockeye salmon stomachs contained the largest number of prey per fish. Empty stomachs were observed in coho salmon.

Table B-36 Percent by Number (% N) of Prey Organisms and Percent Frequency of Occurrence (% F) in Salmon Smolt Stomach Contents caught by Seine in Survey Area B

Stomach Content Prey Taxa	Salmon Smolts									
	Pink (n = 0)		Chinook (n = 1)		Chum (n = 0)		Coho (n = 35)		Sockeye (n = 2)	
	% N	% F	% N	% F	% N	% F	% N	% F	% N	% F
Crustacea (Planktonic)										
Euphausiacea (krill)	-	-	57.9	100.0	-	-	0.0	0.0	6.6	50.0
Copepoda	-	-	19.0	100.0	-	-	2.9	5.7	38.9	100.0
Cladocera	-	-	0.0	0.0	-	-	0.1	2.9	34.9	50.0
Decapoda	-	-	8.3	100.0	-	-	12.1	37.1	7.1	100.0
Crustacea (Benthic/Planktonic)										
Cumacea	-	-	2.5	100.0	-	-	10.2	25.7	0.0	0.0
Cirripedia	-	-	9.1	100.0	-	-	1.9	11.4	5.8	100.0
Amphipoda/Isopoda	-	-	0.0	0.0	-	-	10.7	45.7	0.3	50.0
Ostracoda	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Unknown Crustacea	-	-	0.0	0.0	-	-	1.6	11.4	0.0	0.0
Insects/Arachnids	-	-	2.5	100.0	-	-	53.1	65.7	0.0	0.0
Pisces (fish)	-	-	0.0	0.0	-	-	6.1	20.0	6.1	50.0
Mollusca/Gastropoda	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Nematoda	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Nemertea	-	-	0.0	0.0	-	-	0.1	2.9	0.0	0.0
Polychaeta	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Unknown Arthropod			0.0	0.0			0.1	2.9	0.0	0.0
Non-food items	-	-	0.8	100.0	-	-	0.3	8.6	0.0	0.0
Undetermined materials	-	-	0.0	0.0	-	-	0.8	22.9	0.3	50.0
% Fullness (Median)	-		80		-		60		95	
% Digested (Median)	-		90		-		70		90	
Total prey items counted	-		121		-		1042		378	
Prey items per fish	-		121		-		29.8		189	
Empty stomachs (%)	-		0		-		5.7		0	

NOTES:

%N Percent by number of prey relative to prey counted

%F Percent occurrence observed in stomach samples

B.4.3 Survey Area C

A total of 17 salmon smolts (one sockeye and 16 coho) were captured in survey area C using beach seines. Salmon captured in survey area C had a relatively moderate to high proportion of stomach fullness (50 – 70%) and a low proportion of digested prey and materials (25 – 50%).

Stomach contents of all salmon smolt species were dominated (in number and frequency) by crustacean benthic/planktonic prey and insects and arachnids (Table B-37). Terrestrial insects and arachnids comprised a high numerical proportion of contents in stomachs of coho (78.5%) with lower in the one sockeye salmon smolt (16.3%). Small fish prey were found in 12.5% (2 of 16) of coho salmon stomachs with none present in the one sockeye salmon stomach. Coho salmon stomach contents contained more insects and smaller numbers of cumaceans, and fewer decapods, copepods, amphipods, isopods, cirripedes, and euphausiids. The sockeye salmon stomach contained cumaceans and fewer insects and arachnids, cirripedes, and copepods. The sockeye salmon had the largest number of prey per fish. Empty stomachs were observed in coho salmon.

Table B-37 Percent by Number (% N) of Prey Organisms and Percent Frequency of Occurrence (% F) in Salmon Smolt Stomach Contents caught by Seine in Survey Area C

Stomach Content Prey Taxa	Salmon Smolts									
	Pink (n = 0)		Chinook (n = 0)		Chum (n = 0)		Coho (n = 16)		Sockeye (n = 1)	
	% N	% F	% N	% F	% N	% F	% N	% F	% N	% F
Crustacea (Planktonic)										
Euphausiacea (krill)	-	-	-	-	-	-	0.2	6.3	0.0	0.0
Copepoda	-	-	-	-	-	-	1.2	18.8	2.0	100.0
Cladocera	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Decapoda	-	-	-	-	-	-	3.6	18.8	0.0	0.0
Crustacea (Benthic/Planktonic)										
Cumacea	-	-	-	-	-	-	12.1	12.5	77.6	100.0
Cirripedia	-	-	-	-	-	-	0.2	6.3	4.1	100.0
Amphipoda/Isopoda	-	-	-	-	-	-	0.6	18.8	0.0	0.0
Ostracoda	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Unknown Crustacea	-	-	-	-	-	-	0.2	6.3	0.0	0.0
Insects/Arachnids	-	-	-	-	-	-	78.5	81.3	16.3	100.0
Pisces (fish)	-	-	-	-	-	-	2.8	12.5	0.0	0.0
Mollusca/Gastropoda	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Nematoda	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Nemertea	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Polychaeta	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Unknown Arthropod							0.0	0.0	0.0	0.0
Non-food items	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Undetermined materials	-	-	-	-	-	-	0.6	18.8	0.0	0.0
% Fullness (Median)	-		-		-		70		50	
% Digested (Median)	-		-		-		50		25	
Total prey items counted	-		-		-		497		49	
Prey items per fish	-		-		-		31.1		49	
Empty stomachs (%)	-		-		-		6.3		0	

NOTES:

%N Percent by number of prey relative to prey counted

%F Percent occurrence observed in stomach samples

B.4.4 Survey Area F

A total of seven salmon smolts (one coho and six sockeye) were captured in survey area F in a single purse seine. Sockeye salmon captured in survey area F had a relatively moderate proportion of stomach fullness (50 – 70%) and a moderate to high proportion of digested prey and materials (55 – 80%).

Stomach contents of all salmon smolt species were dominated (in number and frequency) by crustacean planktonic prey and crustacean benthic prey (Table B-38). Terrestrial insects and arachnids comprised a high numerical proportion of contents in stomach of the one coho salmon (70%) with lower in the six sockeye salmon stomachs (0.04%). Small fish prey were not observed in either species of salmon. Sockeye salmon stomachs contained primarily cladocerans, and less frequently cirripedes and copepods. The coho salmon stomach contents contained more insects and smaller numbers of benthic/ planktonic crustacea (cumaceans and cirripedes). Sockeye salmon stomachs had the largest number of prey per fish. Salmon collected from survey area F were not observed to have any empty stomachs.

Table B-38 Percent by Number (% N) of Prey Organisms and Percent Frequency of Occurrence (% F) Salmon Smolt Stomach Contents caught by Seine in Survey Area F

Stomach Content Prey Taxa	Salmon Smolts									
	Pink (n = 0)		Chinook (n = 0)		Chum (n = 0)		Coho (n = 1)		Sockeye (n = 6)	
	% N	% F	% N	% F	% N	% F	% N	% F	% N	% F
Crustacea (Planktonic)										
Euphausiacea (krill)	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Copepoda	-	-	-	-	-	-	0.0	0.0	0.3	66.7
Cladocera	-	-	-	-	-	-	0.0	0.0	85.1	100.0
Decapoda	-	-	-	-	-	-	0.0	0.0	0.0	16.7
Crustacea (Benthic/Planktonic)										
Cumacea	-	-	-	-	-	-	3.3	100.0	0.0	16.7
Cirripedia	-	-	-	-	-	-	6.7	100.0	14.5	100.0
Amphipoda/Isopoda	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Ostracoda	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Unknown Crustacea	-	-	-	-	-	-	0.0	0.0	0.0	16.7
Insects/Arachnids	-	-	-	-	-	-	70.0	100.0	0.04	33.3
Pisces (fish)	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Mollusca/Gastropoda	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Nematoda	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Nemertea	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Polychaeta	-	-	-	-	-	-	0.0	0.0	0.0	0.0
Unknown Arthropod							0.0	0.0	0.0	0.0
Non-food items	-	-	-	-	-	-	16.7	100.0	0.0	16.7
Undetermined materials	-	-	-	-	-	-	3.3	100.0	0.1	83.3
% Fullness (Median)	-		-		-		70		50	
% Digested (Median)	-		-		-		80		55	
Total prey items counted	-		-		-		30		11654	
Prey items per fish	-		-		-		30		1942.3	
Empty stomachs (%)	-		-		-		0		0	

NOTES:

%N Percent by number of prey relative to prey counted

%F Percent occurrence observed in stomach samples

B.4.5 Survey Area G

A total of 16 salmon smolts (one coho, seven Chinook, and eight sockeye) were captured in survey area G using trawl, beach and purse seines. Chinook and sockeye stomach captured in survey area G had a relatively high proportion of stomach fullness (95 – 100%) and a moderate proportion of digested prey and materials (50 – 60%).

Stomach contents of all salmon smolt species were dominated (in number and frequency) by crustacean planktonic prey and terrestrial insects (Table B-39). Terrestrial insects and arachnids comprised a high numerical proportion of contents in the coho salmon stomach (80%) with none present in Chinook or sockeye salmon. Small fish prey were found in 87.5% (7 of 8) of sockeye salmon stomachs and 71.4% (5 of 7) of Chinook salmon stomachs with none present in the coho salmon stomach. Chinook and sockeye salmon stomachs contained primarily crustacean planktonic prey (euphausiids, copepods, and decopods) and fewer crustacea benthic/planktonic (cumaceans, cirripedes, amphipods, and isopods). The single coho salmon stomach contained insects, arachnids, and euphausiid prey. Chinook salmon had the largest number of prey per fish. Salmon collected from survey area G were not observed to have any empty stomachs.

Table B-39 Percent by Number (% N) of Prey Organisms and Percent Frequency of Occurrence (% F) Salmon Smolt Stomach Contents caught by Seine in Survey Area G

Stomach Content Prey Taxa	Salmon Smolts									
	Pink (n = 0)		Chinook (n = 7)		Chum (n = 0)		Coho (n = 1)		Sockeye (n = 8)	
	% N	% F	% N	% F	% N	% F	% N	% F	% N	% F
Crustacea (Planktonic)										
Euphausiacea (krill)	-	-	71.7	71.4	-	-	20.0	100.0	79.9	87.5
Copepoda	-	-	19.9	71.4	-	-	0.0	0.0	12.9	100.0
Cladocera	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Decapoda	-	-	0.9	57.1	-	-	0.0	0.0	0.2	50.0
Crustacea (Benthic/Planktonic)										
Cumacea	-	-	0.05	14.3	-	-	0.0	0.0	0.0	0.0
Cirripedia	-	-	6.1	42.9	-	-	0.0	0.0	1.7	62.5
Amphipoda/Isopoda	-	-	0.1	28.6	-	-	0.0	0.0	0.2	37.5
Ostracoda	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Unknown Crustacea	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Insects/Arachnids	-	-	0.0	14.3	-	-	80.0	100.0	0.0	0.0
Pisces (fish)	-	-	1.3	71.4	-	-	0.0	0.0	4.6	87.5
Mollusca/Gastropoda	-	-	0.0	0.0	-	-	0.0	0.0	0.4	37.5
Nematoda	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Nemertea	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Polychaeta	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Unknown Arthropod			0.0	0.0			0.0	0.0	0.0	0.0
Non-food items	-	-	0.0	0.0	-	-	0.0	0.0	0.0	0.0
Undetermined materials	-	-	0.0	0.0	-	-	0.0	0.0	0.1	25.0
% Fullness (Median)	-		95		-		5		100	
% Digested (Median)	-		60		-		0		50	
Total prey items counted	-		2096		-		5		2200	
Prey items per fish	-		299.4		-		5		275	
Empty stomachs (%)	-		0		-		0		0	

NOTES:

%N Percent by number of prey relative to prey counted

%F Percent occurrence observed in stomach samples

B.4.6 Survey Area H

A total of 31 salmon smolts (11 Chinook and 20 coho) were captured in survey area H using trawl and beach seines. Chinook salmon captured in survey area H had a relatively high proportion of stomach fullness (90%) and a high proportion of digested prey and materials (80%). Coho salmon captured in survey area H had a relatively moderate proportion of stomach fullness (50%) and of digested prey and materials (67.5%).

Stomach contents of all salmon smolt species were dominated (in number and frequency) by crustacean planktonic prey, crustacean benthic prey, and terrestrial insects (Table B-40). Terrestrial insects and arachnids comprised a high numerical proportion of stomach contents in Chinook (80.4%) and coho (70.9%) salmon. Small fish prey were found in 54.5% (6 of 11) of Chinook salmon stomachs and 20% (4 of 20) of coho salmon stomachs. Chinook salmon stomach contained primarily insect, arachnid, and smaller numbers of copepods, and less frequently decapods, amphipods and isopods. Coho salmon stomachs contained primarily insect and arachnid, and smaller numbers of cumaceans, and less frequently on amphipods, isopods, decapods and cirripedes. Chinook salmon had the largest number of prey per fish. Salmon collected from survey area H were not observed to have any empty stomachs.

Table B-40 Percent by Number (% N) of Prey Organisms and Percent Frequency of Occurrence (% F) Salmon Smolt Stomach Contents caught by Seine in Survey Area H

Stomach Content Prey Taxa	Salmon Smolts									
	Pink (n = 0)		Chinook (n = 11)		Chum (n = 0)		Coho (n = 20)		Sockeye (n = 0)	
	% N	% F	% N	% F	% N	% F	% N	% F	% N	% F
Crustacea (Planktonic)										
Euphausiacea (krill)	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Copepoda	-	-	14.0	9.1	-	-	0.0	0.0	-	-
Cladocera	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Decapoda	-	-	0.2	9.1	-	-	0.8	10.0	-	-
Crustacea (Benthic/Planktonic)										
Cumacea	-	-	0.0	0.0	-	-	14.0	30.0	-	-
Cirripedia	-	-	0.0	0.0	-	-	0.3	5.0	-	-
Amphipoda/Isopoda	-	-	2.2	36.4	-	-	6.3	45.0	-	-
Ostracoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Unknown Crustacea	-	-	0.0	0.0	-	-	1.6	5.0	-	-
Insects/Arachnids	-	-	80.4	90.9	-	-	70.9	80.0	-	-
Pisces (fish)	-	-	2.5	54.5	-	-	3.4	20.0	-	-
Mollusca/Gastropoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Nematoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Nemertea	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Polychaeta	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Unknown Arthropod			0.0	0.0			0.0	0.0		
Non-food items	-	-	0.3	18.2	-	-	0.3	5.0	-	-
Undetermined materials	-	-	0.5	27.3	-	-	2.4	35.0	-	-
% Fullness (Median)	-		90		-		50		-	
% Digested (Median)	-		80		-		67.5		-	
Total prey items counted	-		641		-		378		-	
Prey items per fish	-		58.3		-		18.9		-	
Empty stomachs (%)	-		0		-		0		-	

NOTES:

%N Percent by number of prey relative to prey counted

%F Percent occurrence observed in stomach samples

B.4.7 Survey Area I

A total of 40 salmon smolts (seven Chinook and 33 coho) were captured from survey area I using trawl and beach seines. Coho and Chinook salmon captured in survey area I had a relatively high proportion of stomach fullness (70 – 80%) and a moderate (50%) and high (75%) proportion of digested prey and materials in Chinook and coho salmon respectively.

Stomach contents of all salmon smolt species were dominated (in number and frequency) by crustacean planktonic prey, crustacean benthic prey, and terrestrial insects (Table B-41). Terrestrial insects and arachnids comprised a high numerical proportion of stomach contents of Chinook (82.4%) with lower in coho (24.1%) salmon. Small fish prey were found in 57.1% (4 of 7) of Chinook salmon stomachs and 6.1% (2 of 33) of coho salmon stomachs. Chinook salmon stomachs contained primarily insects and arachnids and less frequently small fish and crustacea benthic/planktonic (cumaceans, amphipods, and isopods). Coho salmon showed the greatest diversity in prey types across benthic and planktonic crustaceans, nearshore benthic crustaceans, terrestrial insects, and small fish. Chinook salmon had the largest number of prey per fish. Salmon collected from survey area I were not observed to have any empty stomachs.

Table B-41 Percent by Number (% N) of Prey Organisms and Percent Frequency of Occurrence (% F) Salmon Smolt Stomach Contents caught by Seine in Survey Area I

Stomach Content Prey Taxa	Salmon Smolts									
	Pink (n = 0)		Chinook (n = 7)		Chum (n = 0)		Coho (n = 33)		Sockeye (n = 0)	
	% N	% F	% N	% F	% N	% F	% N	% F	% N	% F
Crustacea (Planktonic)										
Euphausiacea (krill)	-	-	0.0	0.0	-	-	27.8	15.2	-	-
Copepoda	-	-	0.0	0.0	-	-	0.9	9.1	-	-
Cladocera	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Decapoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Crustacea (Benthic/Planktonic)										
Cumacea	-	-	1.0	14.3	-	-	7.0	30.3	-	-
Cirripedia	-	-	0.0	0.0	-	-	12.3	3.0	-	-
Amphipoda/Isopoda	-	-	3.4	28.6	-	-	23.7	63.6	-	-
Ostracoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Unknown Crustacea	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Insects/Arachnids	-	-	82.4	42.9	-	-	24.1	69.7	-	-
Pisces (fish)	-	-	10.3	57.1	-	-	0.5	6.1	-	-
Mollusca/Gastropoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Nematoda	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Nemertea	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Polychaeta	-	-	0.0	0.0	-	-	0.0	0.0	-	-
Unknown Arthropod			0.0	0.0			0.0	0.0		
Non-food items	-	-	1.5	14.3	-	-	0.7	3.0	-	-
Undetermined materials	-	-	1.5	42.9	-	-	3.1	21.2	-	-
% Fullness (Median)	-		80		-		70		-	
% Digested (Median)	-		50		-		75		-	
Total prey items counted	-		204		-		586		-	
Prey items per fish	-		29.1		-		17.8		-	
Empty stomachs (%)	-		0		-		0		-	

NOTES:

%N Percent by number of prey relative to prey counted

%F Percent occurrence observed in stomach samples

APPENDIX C
HYDROACOUSTIC ANALYSIS SEGMENTS

Appendix C HYDROACOUSTIC ANALYSIS SEGMENTS

Table C-1 Number of Hydroacoustic Analysis Segments

Survey Area	Jan 2015	Feb 2015	Mar 2015	Apr 2015	May 2015	Jun 2015	Jul 2015	Aug 2015	Sep 2015	Oct 2015	Nov 2015	Dec 2015	Jan 2016	Feb 2016
Number of 100 m Daytime Hydroacoustic Segments														
A	90	70	71	85	99	87	138	64	65	47	82	60	60	59
B	17	17	19	36	18	17	34	17	NA	18	17	NA	NA	NA
C	13	16	12	12	18	12	35	16	17	15	13	14	16	15
D	68	82	53	52	85	73	158	89	78	58	102	61	74	72
E	46	42	45	40	41	22	88	22	27	29	40	12	43	35
F	18	33	17	18	32	32	46	26	23	14	39	32	22	23
G	NA	NA	NA	NA	NA	NA	120	67	100	NA	93	235	136	130
H	NA	NA	NA	NA	NA	NA	107	59	59	NA	100	75	61	58
I	NA	NA	NA	NA	NA	NA	127	84	113	NA	105	170	107	103
Number of 500 m Nighttime Hydroacoustic Segments														
A	NA	NA	NA	NA	88	78	55	NA	NA	NA	NA	NA	NA	NA
B	NA	NA	NA	NA	18	13	9	NA	NA	NA	NA	NA	NA	NA
C	NA	NA	NA	NA	3	11	6	NA	NA	NA	NA	NA	NA	NA
D	NA	NA	NA	NA	98	68	47	NA	NA	NA	NA	NA	NA	NA
E	NA	NA	NA	NA	56	39	27	NA	NA	NA	NA	NA	NA	NA
F	NA	NA	NA	NA	68	87	67	NA	NA	NA	NA	NA	NA	NA
G	NA	NA	NA	NA	NA	15	54	NA	NA	NA	NA	NA	NA	NA

APPENDIX D
MARINE FISH SURVEY INCIDENTAL SIGHTINGS

Appendix D MARINE FISH SURVEY INCIDENTAL SIGHTINGS

Incidental sightings of marine flora and fauna and species-related events, like observations of fish or invertebrate eggs, larvae and other life stages, spawning or crab moulting events, were recorded in field notes during marine fish and fish habitat surveys. Table D-1 presents a summary of incidental sightings by survey date.

Table D-3 Marine Fish and Fish Habitat Survey Incidental Sighting Summary

Survey Type	Survey Number	Date	Incidental Sightings
Daytime	Daytime-01	December 16–20, 2014	Humpback whales sighted offshore survey area E Harbour porpoise sighted offshore survey area A Herring school sighted offshore area A
	Daytime-02	January 27–31, 2015	Humpback whales sighted offshore survey area E Harbour porpoise sighted offshore survey area A Harbour porpoise sighted in survey area A and B
	Daytime-03	February 17–22, 2015	Harbour porpoise sighted offshore survey area A Stellar sea lion sighted in survey area F and offshore survey area A
	Daytime-04	March 20–24, 2015	Big skate captured in survey area A in beach seine Pink and chum salmon first captured in survey area A in beach seines Harbour porpoise sighted in survey area A
	Daytime-05	April 23–29, 2015	No sightings
	Daytime-06	May 18–23, 2015	Gravid adult herring observed in survey area A Juvenile crab captured in beach seines Giant wrymouth captured in beach seine Crab larvae captured in offshore trawls Gravid Pacific staghorn sculpin captured in beach seine in survey area B
	Daytime-07	June 7–14, 2015	Herring eggs observed on eastern patches of eelgrass in survey area F Herring eggs captured in trawl net in survey area A Dungeness crab shells observed in survey area A Bald eagles observed during low tide in survey area F High number of fish species observed in net catches in all survey areas Two Harbour seal pups observed washed up onto intertidal area in survey area A and F Many Harbour seals observed in survey area A and B Commercial salmon gillnetters observed (June 12, 2015) in survey area D, G and H Juvenile crab captured in nets in survey area H Over 3,000 sandlance captured in a trawl net in survey area G

Table D-3 Marine Fish and Fish Habitat Survey Incidental Sighting Summary

Survey Type	Survey Number	Date	Incidental Sightings
Daytime (cont'd)	Daytime-08	June 16–22, 2015	Gravid surf smelt captured in trawl in survey area A Larval and juvenile herring captured in trawls offshore survey area B, A and E Gravid starry flounder and Pacific staghorn sculpin captured in beach seines in survey area A Jellyfish captured in trawls in survey area H
	Daytime-09	July 2–8, 2015	Larval and juvenile herring sighted and captured in survey area B in trawls and beach seines Bald eagles observed feeding on Big skate carcass in survey area F and in trees on Kitson Island in survey area E Commercial gillnetters fishing in survey area D Shore birds observed in intertidal areas in survey area F
	Daytime-10	July 16–23, 2015	Juvenile herring captured in beach seines in survey area B Stubby squid observed in trawl catch in survey area H
	Daytime-11	August 12–19, 2015	Seabirds (western grebes) observed in offshore survey area E and D Adult sockeye salmon observed jumping out of the water in survey area H and G Stubby squid observed in trawl catch in survey area H
	Daytime-12	September 14–20, 2015	Dall's porpoise sighted in survey area G Harbour porpoise sighted in survey area B
	Daytime-13	October 29–November 4, 2015	Western grebe sighted in survey area E Surf scoters, bald eagles sighted in survey area B Harbour porpoise sighted in survey area B Four killer whales observed off Port Edward in Porpoise Harbour
	Daytime-14	November 26–December 3, 2015	Humpback whales sighted offshore from survey area E
	Daytime-15	December 9–12, 2015	Euphausiids captured in trawls
	Daytime-16	January 17–24, 2016	Juvenile shrimp captured in trawls in survey area A and B Euphausiids captured in trawls
	Daytime-17	February 11–17 , 2016	Euphausiids captured in trawls

Table D-3 Marine Fish and Fish Habitat Survey Incidental Sighting Summary

Survey Type	Survey Number	Date	Incidental Sightings
Nighttime	Nighttime-01	April 30–May 4, 2015	No sightings
	Nighttime-02	May 12–15, 2015	No sightings
	Nighttime-03	May 25–30, 2015	Harbour seals sighted off survey area A Gravid adult herring observed in survey area A Full bellied staghorn sculpins captured in survey area B Initial capture of larval fish in surface trawls
	Nighttime-04	June 3–8, 2015	Herring eggs observed on eelgrass in survey area F
	Nighttime-05	June 9–16, 2015	Concentrations of phytoplankton diatoms sighted offshore in survey area E
	Nighttime-06	June 16–23, 2015	Stubby squid observed in trawl catch in survey area E
	Nighttime-07	June 24–July 1, 2015	Larval and juvenile herring captured in seine net in survey area B Four fishing vessels grounded in survey area C Big skate and tomcod captured in fyke net in survey area F Derelict crab traps washed up into survey area F Gravid starry flounder captured in trawl in survey area A
	Nighttime-08	July 1–9, 2015	Commercial gillnetters fishing in survey area D Larval and juvenile herring captured in seine net in survey area B Stubby squid observed in trawl catch in survey area H
	Nighttime-09	July 10–15, 2015	Quillfish captured in trawl in survey area E Juvenile octopus captured in trawl in survey area B Juvenile herring captured in trawl in survey area B Crab larvae captured in trawl in survey area H

APPENDIX E
EXPLORATORY SAMPLE METHODS AND RESULTS

Appendix E EXPLORATORY SAMPLE METHODS AND RESULTS

E.1 METHODS

E.1.1 Prawn Trapping

Prawn trapping was trialed in February 2015 to evaluate the feasibility and value of adding systematic prawn sampling to the overall Program. Prawn traps were deployed at selected crab sample sites and stratified by depth within the vicinity of the Project's marine components (i.e., survey areas A through F; Figure E-1). In May 2015, prawn trapping was removed from the Program due to difficult sampling conditions (traps being lost), and low prawn catches from shallow nearshore sites (limited deep water sites within the survey area which are typically used by prawns).

Commercial grade prawn traps (71 cm diameter, 7.6 cm stainless steel ring opening, web of 38 mm mesh) were deployed at each prawn sample site. Traps were baited with commercial dried pellets and soaked for 18 to 24 hours before being retrieved. All prawns captured were identified to the lowest taxonomic level possible (ideally to species), and live released. Results of the exploratory prawn sampling are summarized in Table E-1.

Table E-1 Exploratory Sample Methods Effort (December 2014 – February 2016)

Survey Number	Tucker Trawl 1 x 1 m	Otter Trawl 5 x 5 m	Purse Seine 50 x 6 m	Fyke Net 15 x 1 m	Prawn Trapping	CTD
Daytime-01	0	0	0	0	0	11
Daytime-02	5	0	0	0	0	17
Daytime-03	0	0	0	0	10	17
Daytime-04	0	0	0	4	8	17
Daytime-05	0	4	0	2	4	17
Daytime-06	0	0	0	3	0	17
Daytime-07	0	0	0	0	0	21
Daytime-08	0	3	0	1	0	14
Daytime-09	0	0	0	0	0	21
Daytime-10	0	0	0	0	0	13
Daytime-11	0	0	0	0	0	32
Daytime-12	0	0	0	0	0	39
Daytime-13	0	0	0	0	0	38
Daytime-14	0	0	0	0	0	39
Daytime-15	0	0	0	0	0	47
Daytime-16	0	0	0	0	0	48

Table E-1 Exploratory Sample Methods Effort (December 2014 – February 2016)

Survey Number	Tucker Trawl 1 x 1 m	Otter Trawl 5 x 5 m	Purse Seine 50 x 6 m	Fyke Net 15 x 1 m	Prawn Trapping	CTD
Daytime-17	0	0	0	0	0	18
Nighttime-01	0	0	0	1	0	0
Nighttime-02	0	0	0	3	0	19
Nighttime-03	0	0	0	3	0	18
Nighttime-04	0	0	0	0	0	14
Nighttime-05	0	0	0	2	0	18
Nighttime-06	0	0	7	3	0	37
Nighttime-07	0	0	15	4	0	37
Nighttime-08	0	0	21	0	0	18
Nighttime-09	0	0	10	0	0	38
Total	5	7	53	26	22	625

Alternate Trawl Nets

Three other trawl net types were trialed to collect pelagic fish along pre-defined transects in the survey areas. Different trawl types were used to explore best match between existing marine tidal currents and conditions and vessels and targeted marine fish species or life stages. The three trawl nets included: (a) modified Otter trawl net (18 m long with an opening 5 m wide and 4.6 m deep), (b) 2 m x 2 m Tucker trawl, and (c) 1 m x 1 m Tucker trawl.

The 1 m x 1 m Tucker trawl net was used initially during daytime fish surveys until replaced with a Program specific custom made 2 m x 2 m Tucker trawl (Section 3.2.2.2.2). After evaluation of catch by species, the 1 m x 1 m Tucker trawl was deemed inefficient for fish sampling within the survey areas due to small mesh size and low relative capture efficiency. It was removed from surveys in February 2015, and replaced by a more effective 2 m x 2 m Tucker trawl.

The Otter trawl net fished waters from 0 m to 5 m in depth, the 2 m x 2 m Tucker trawl net fished waters from 0.5 m to 3 m, and the 1 m x 1 m Tucker trawl fished obliquely though the water column from 5 m to 20 m. The modified Otter trawl was constructed with a baffled holding box specifically designed for live capture of fish (i.e., non-lethal sampling), and was used on transects in water deeper than 1 m (due to draft requirements of the fishing vessel). All species live-captured were released, with the exception of salmon species, which were retained for stomach content analysis (Section 3.2.3.1) under DFO scientific collection permits.

Fyke Net

Fyke nets were used to sample the shallow intertidal areas on Flora Bank (survey area F) where other methods were constrained because of rapid changes in tides and current speeds

reaching 0.5 m/second during ebb and flood tides (Hatch 2015). As discussed in Section 3.2.1.1, beach seines could not be safely or effectively used on most (90%) of the surface of Flora Bank (i.e., only the edges of the bank could be fished using beach seine techniques). No fyke nets were deployed successfully in Marcus Passage on Base Sand (survey area G) due to the loose substrate which compromised the fyke net set and net openings' ability to effectively fish as a passive fishing gear (trap net).

Fyke nets were set during daytime fish surveys in March 2015 to provide additional information on fish species presence, movement, and distribution across the shallow areas on Flora Bank. Fyke nets are an effective passive fishing method for sampling migratory fish species in habitats with moving water (tides, currents). This form of passive live-fish sampling and capture is effective over long duration sets and tidal cycles (six to 10 hour sets) and across shallow and intertidal habitats such as Flora Bank (Conlin and Tutty 1979; Shreffler et al. 1990; Portt et al. 2006; Johnson et al. 2007).

Fyke nets are constructed with a cone-shaped net bag mounted on a series of hoop rings (0.6 m diameter by 3.8 m long) with mesh wings to direct fish into the net. At the front, the outside lead (7.3 m long wing) guides the fish towards the square opening of the net bag (0.76 m high by 0.86 m wide). A third central lead (14.6 m) also directs fish into the net (Photograph E-1).



Photograph E-1 Fyke Net Set on Flora Bank

Varying tidal heights between surveys exposed different areas of Flora Bank such that exact sample sites had to be determined at each low tide based on:

- Local site conditions
- Safe sample site access
- Transport of the gear to the site
- Positioning and orientation of the fyke net opening at each site to ebb or flood tidal currents during the next tidal cycle
- Local habitat complexity (e.g., eelgrass presence, shallow dendritic channels; Figure E-2)

In general, sample site access and conditions were ideal along the northwest corner of Flora Bank, although sample sites were also successfully completed on the northeast corner of Flora Bank. The frequency of successful sampling ranged from zero to four net sets per survey (see Table E-4 for a summary of results). Nets were initially set at both high and low tides. However, setting nets at low tide became the method of choice due to the added effort required to ensure proper setup from a vessel during high water.

Samples of captured fish were processed for biological characteristics as described in Section 3.2.3.

Purse Seine

Purse seines were used to sample offshore pelagic nearshore habitats fish (e.g., Beamish et al. 2003) during nighttime fish surveys. Purse seining was added as a component to the nighttime fish surveys at the end of June 2015 to diversify the gear and gear sampling size (area) in the Program consistent with other past sampling programs (for example Higgins and Schoewenburg 1973). Sample sites fished within the vicinity of the Project's marine components included survey area B (Porpoise Channel) and survey area D (near Horsey Bank)(Figure E-1). Within survey area G (Marcus Passage), sample sites included areas along the southwestern edge of Smith Island and the northern edge of Kennedy Island (Figure E-2).

Purse seine sample sites were chosen based on field conditions associated with tide height for site water depths, tidal currents and weather (i.e., they were not fixed) and occurred in survey areas B and D; Figure E-1) and within survey area G (Figure E-2).

The purse seine was 50 m in length and 6 m deep with a mesh size of 11 mm. The net was pursed using a perimeter line drawn through a set of rings along the entire vertical and bottom horizontal panels of the net. The purse seine was set from a boat and hauled straight for approximately 10 m to confirm no twists or tangles were present in the set (specifically that lead lines did not cross the float line). Once the net was set in the water, the boat circled back to the opposite end of the purse seine to retrieve the net lead to complete full circle of net in the water. The lead and purse line of the seine net was pulled in to close the net bottom to prevent fish from escaping. Once pursed, the net was hauled up and into the boat. Fish were left in the water before being collected for processing. UTM coordinates were recorded for seine set start points, and water depths were recorded at the deepest point of the set.

Samples of captured fish were processed for biological characteristics as described in 3.2.3.



City or Town
Project Component
Railway
Road
Secondary Road
Watercourse
Bathymetry (m)
Major Contour
Minor Contour

Survey Area
Prince Rupert Port Authority Boundary
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Fyke Net (Daytime) (24)*
Prawn Trap (Daytime) (22)*
Purse Seine (Nighttime) (36)*
Hydroacoustic and Trawl Transect (Daytime, 1x1/5x5 m) (5)

*Due to sampling effort, some data points may be overlapping

Pacific NorthWest LNG

Exploratory Survey Methods Sample Sites: Survey Areas A, B, C, D, E, and F

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information, Progress Energy Canada Ltd

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

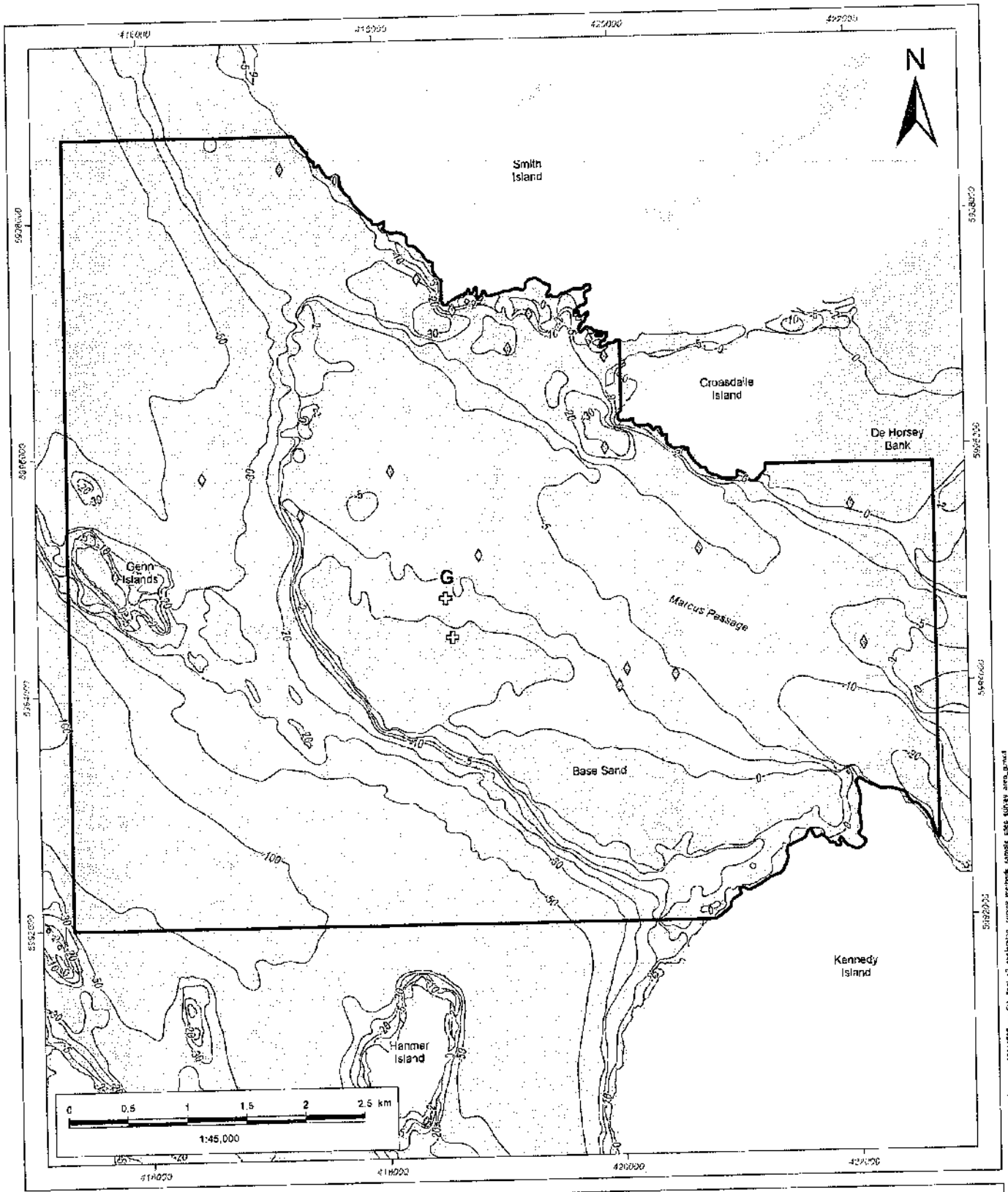
DATE: 02-MAY-16
FIGURE ID: 123110537
DRAWN BY: R.COATTA

PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: L.HOWELL

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: **E-1**



Watercourse
Bathymetric Contour
Survey Area
Waterbody
Intertidal Bank
Fyke Net (Daytime) (2)*
Purse Seine (Night-time) (2)*

*Due to sampling effort, some data points may be overlapping

Pacific NorthWest LNG

Exploratory Survey Methods Sample Sites: Survey Area G

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority, Government of Canada, Natural Resources Canada, Centre for Topographic Information, Progress Energy Canada Ltd

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 02-MAY-16
FIGURE ID: 123110537
DRAWN BY: R.COATTA

PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: L.HOWELL

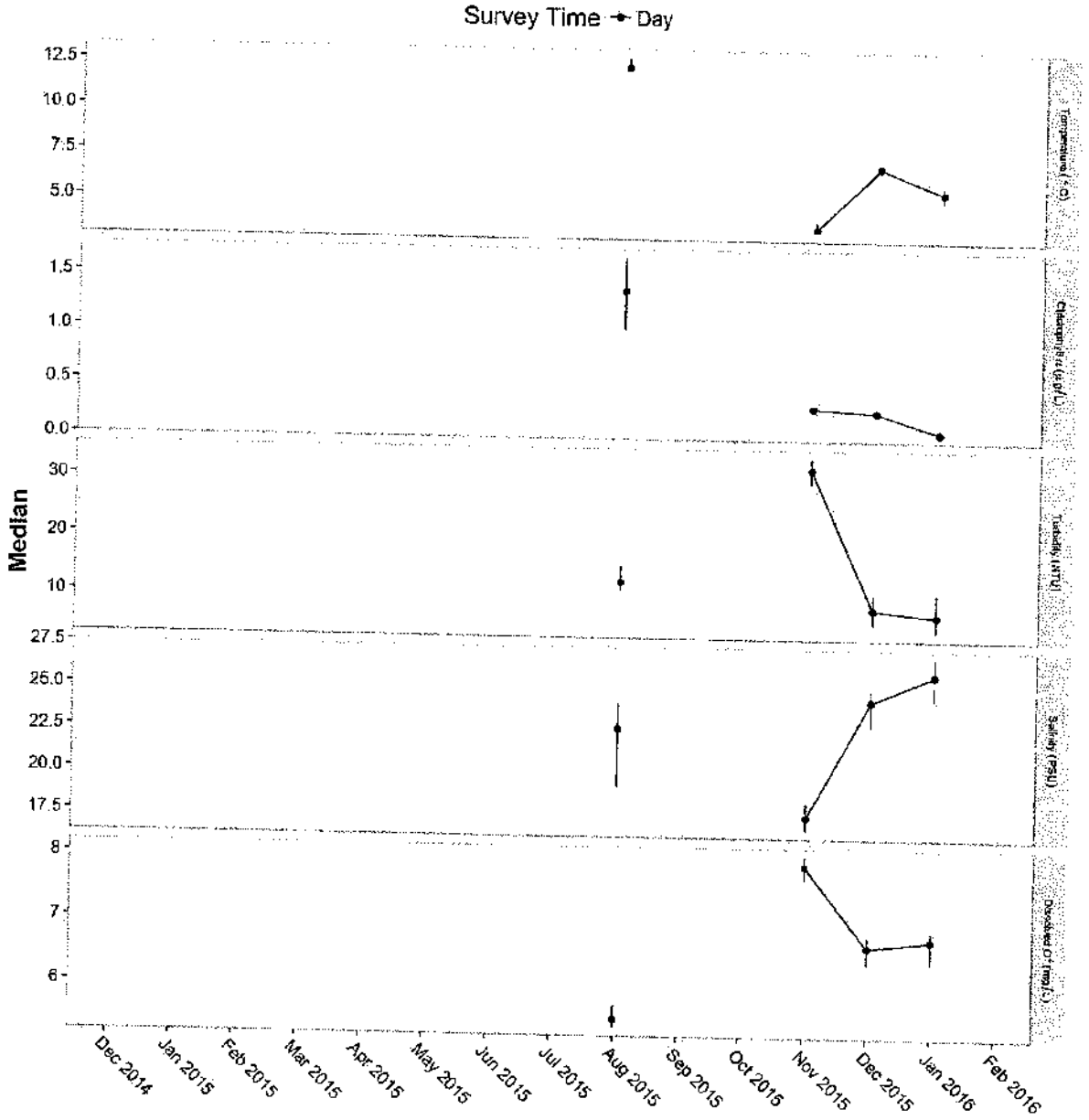
PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: **E-2**

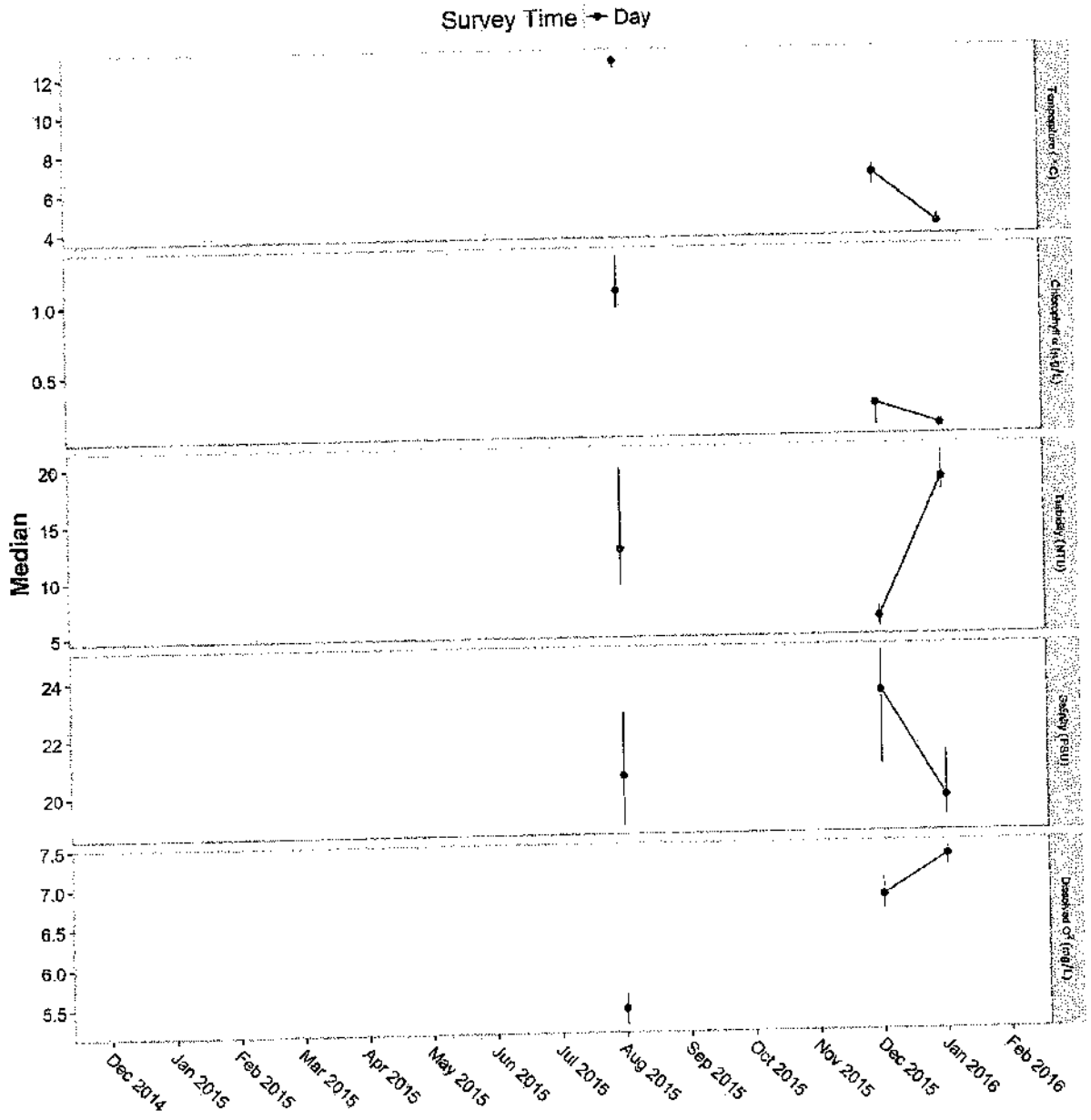
E.2 RESULTS

E.2.1 Water Properties Exploratory Sample Sites



NOTE: Error bars represent the interquartile range

Figure E-3 Survey Area H: Water Property Characteristics



NOTE: Error bars represent the interquartile range

Figure E-4 Survey Area I: Water Property Characteristics

E.3 PRAWN TRAPPING

Prawn traps were set on February 21 (11 sample sites), March 21 – 22 (9 sample sites), and April 24 – 25 (5 sample sites). Total effort was 25 traps set (Table E-2), totaling 466.7 trap hours (247, 158.8, and 60.9 hours respectively). Depths sampled ranged from 6.0 to 72.3 m.

This sampling resulted in 13 individuals in four different prawn species: humpback shrimp (*Pandalus hysinotus*), sidestripe shrimp (*Pandalopsis dispar*), coonstripe shrimp (*Pandalus hysinotus*), and Pacific spot prawn (*Pandalus platyceros*) (Table E-2).

Table E-2 Prawns Caught Per Trap and Depth

Month (Sets)	Depth (m)	Species	Number Caught
February (11)	0 – 10	Humpback Shrimp	0
	11 – 30		2
	> 31		4
February Total		**Humpback Shrimp**	**6**
March (9)	0 – 10	Humpback Shrimp	0
	11 – 30		0
	> 31		3
March Total		**Humpback Shrimp**	**3**
April (5°)	0 – 10	Sidestripe Shrimp	0
		Pacific Spot Prawn	0
		Coonstripe Shrimp	0
	11 – 30	Sidestripe Shrimp	0
		Pacific Spot Prawn	0
		Coonstripe Shrimp	1
	> 31	Sidestripe Shrimp	2
		Pacific Spot Prawn	1
		Coonstripe Shrimp	0
April Total		**All Species**	**4**

NOTE:

° One trap was not recovered; data summarized from four sets

E.4 OTHER SIZE TRAWL NETS

The 1 x 1 m Tucker trawl net was used during the January 2015 daytime survey (Table E-1). Five trawls were completed and only caught fish larvae.

The 5 x 5 m Otter trawl net was used during two surveys (April and June 2015 daytime) (Table E-1). Seven trawls were completed and caught *Medusozoa spp.* (70 individuals) and six fish species (2,266 individuals). Fish species caught included: surf smelt (56), Pacific herring (2,205), starry flounder (3), Pacific sandfish (1), sockeye salmon (1), and Pacific lamprey (1).

E.5 FYKE NETS

Fyke nets were used during four daytime surveys (March, April, May, and July 2015) and during six nighttime surveys (early May through the end of June 2015), with a total of 26 sets completed (Table E-1). Twenty-four fish species (430 individuals) were caught in the fyke nets (Table E-3).

Table E-3 Marine Species and Number of Individuals Captured in Fyke Nets (December 2014 – February 2016)

Fish Common Name	Scientific Name	Number Individuals
Surf Smelt	*Hypomesus pretiosus*	2
Pacific Herring	*Clupea pallasi*	4
Shiner Perch	*Cymatogaster aggregata*	166
Pacific Staghorn Sculpin	*Leptocottus armatus*	72
Starry Flounder	*Platichthys stellatus*	5
Pacific Snake Prickleback	*Lumpenus sagitta*	3
Sand Sole	*Psettichthys melanostictus*	5
Flatfish spp.	*Pleuronectiformes spp.*	11
Crescent Gunnel	*Pholis laeta*	7
Sculpin spp.	*Cottoidea spp.*	3
English Sole	*Parophrys vetelus*	7
Tubesnout	*Aulorhynchus flavidus*	25
Rock Sole	*Lepidopsetta bilineata*	39
Buffalo Sculpin	*Enophrys bison*	1
Pacific Sandfish	*Trichodon trichodon*	2
Big Skate	*Raja binoculata*	1
Rock Greenling	*Hexagrammos lagocephalus*	2
Pacific Cod	*Gadus macrocephalus*	2
Striped Surf Perch	*Embiotoca lateralis*	1
Whitespotted Greenling	*Hexagrammos stelleri*	1

Table E-3 Marine Species and Number of Individuals Captured in Fyke Nets (December 2014 – February 2016)

Fish Common Name	Scientific Name	Number Individuals
Spotted Snailfish	*Liparis callyodon*	1
Dungeness Crab	*Metacarcinus magister*	67
Shrimp (Crangon spp.)	*Crangon spp.*	2
Decorator Crab	*Majidae spp.*	1
Total		**430**

E.6 PURSE SEINES

Purse seines were used during four nighttime surveys (mid-June to mid-July 2015), with a total of 56 sets completed (Table E-1). Fifteen fish species (3,666 individuals) and four invertebrate species (52 individuals) were caught in the purse seines (Table E-4). Four species (653 individuals) were captured in survey area G (Marcus Passage) (Table E-4).

Table E-4 Marine Species and Number of Individuals Captured in Purse Seines (June – July 2015)

Fish Common Name	Scientific Name	Number Individuals
Survey Areas A,B,C,D,E, and F: Fish		
Surf Smelt	*Hypomesus pretiosus*	578
Pacific Herring	*Clupea pallasi*	2,645
Shiner Perch	*Cymatogaster aggregata*	217
Fish Larvae	*Chordata spp.*	130
Starry Flounder	*Platichthys stellatus*	2
Pacific Snake Prickleback	*Lumpenus sagitta*	1
Sand Sole	*Psettichthys melanostictus*	3
Crescent Gunnel	*Pholis laeta*	1
Buffalo Sculpin	*Enophrys bison*	3
Pacific Sandfish	*Trichodon trichodon*	62
Sockeye Salmon	*Oncorhynchus nerka*	8
Coho Salmon	*Oncorhynchus kisutch*	13
Chinook Salmon	*Oncorhynchus tshawytscha*	1
Pacific Cod	*Gadus macrocephalus*	1
Walleye Pollock	*Gadus chalcogrammus*	1

Table E-4 Marine Species and Number of Individuals Captured in Purse Seines (June – July 2015)

Fish Common Name	Scientific Name	Number Individuals
Survey Areas A,B,C,D,E, and F Invertebrate Species		
Crab Larvae	*Malacostraca spp.*	5
Dungeness Crab	*Metacarcinus magister*	3
Prawn/Shrimp spp.	*Decapoda spp.*	43
Coonstripe Shrimp	*Pandalus danae*	1
Survey Area G Fish		
Surf Smelt	*Hypomesus pretiosus*	297
Pacific Herring	*Clupea pallasi*	343
Sockeye Salmon	*Oncorhynchus nerka*	9
Chinook Salmon	*Oncorhynchus tshawytscha*	4

APPENDIX F
HYDROACOUSTIC TRANSECTS

Appendix F HYDROACOUSTIC TRANSECTS

Figure F-1 Daytime Fish Hydroacoustic Survey 2 (January 29 – 31, 2015): MVBS 100 m Segments

Figure F-2 Daytime Fish Hydroacoustic Survey 3 (February 18 – 21, 2015): MVBS 100 m Segments

Figure F-3 Daytime Fish Hydroacoustic Survey 4 (March 23 – 24, 2015): MVBS 100 m Segments

Figure F-4 Daytime Fish Hydroacoustic Survey 5 (April 26 – 27, 2015): MVBS 100 m Segments

Figure F-5 Daytime Fish Hydroacoustic Survey 6 (May 21 – 23, 2015): MVBS 100 m Segments

Figure F-6 Daytime Fish Hydroacoustic Survey 7 (June 9 – 10, 2015): MVBS 100 m Segments

Figure F-7 Daytime Fish Hydroacoustic Survey 9 (July 2 – 8, 2015): MVBS 100 m Segments

Figure F-8 Daytime Fish Hydroacoustic Survey 10 (July 16 – 23, 2015): MVBS 100 m Segments

Figure F-9 Daytime Fish Hydroacoustic Survey 11 (August 12 – 19, 2015): MVBS 100 m Segments

Figure F-10 Daytime Fish Hydroacoustic Survey 12 (September 14 – 19, 2015): MVBS 100 m Segments

Figure F-11 Daytime Fish Hydroacoustic Survey 13 (October 30 – November 4, 2015): MVBS 100 m Segments

Figure F-12 Daytime Fish Hydroacoustic Survey 14 (November 26 – December 3, 2015): MVBS 100 m Segments

Figure F-13 Daytime Fish Hydroacoustic Survey 15 (December 10 – 13, 2015): MVBS 100 m Segments

Figure F-14 Daytime Fish Hydroacoustic Survey 16 (January 17 – 24, 2016): MVBS 100 m Segments

Figure F-15 Daytime Fish Hydroacoustic Survey 2 (February 11 – 17, 2016): MVBS 100 m Segments

Figure F-16 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 9 (July 2 – 8, 2015): MVBS 100 m Segments

Figure F-17 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 10 (July 16 – 23, 2015): MVBS 100 m Segments

Figure F-18 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 11 (August 12 – 19, 2015): MVBS 100 m Segments

Figure F-19 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 12 (September 14 – 19, 2015): MVBS 100 m Segments

Figure F-20 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 13 (October 30 – November 4, 2015): MVBS 100 m Segments

Figure F-21 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 14 (November 26 – December 3, 2015): MVBS 100 m Segments

Figure F-22 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 15 (December 10 – 13, 2015): MVBS 100 m Segments

Figure F-23 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 16 (January 17 – 24, 2016): MVBS 100 m Segments

Figure F-24 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 17 (February 11 – 17, 2016): MVBS 100 m Segments

Figure F-25 Daytime Fish Hydroacoustic Survey 2 (January 29 – 31, 2015): Fish Density 100 m Segments

Figure F-26 Daytime Fish Hydroacoustic Survey 3 (February 18 – 21, 2015): Fish Density 100 m Segments

Figure F-27 Daytime Fish Hydroacoustic Survey 4 (March 23 – 24, 2015): Fish Density 100 m Segments

Figure F-28 Daytime Fish Hydroacoustic Survey 9 (July 2 – 8, 2015): Fish Density 100 m Segments

Figure F-29 Daytime Fish Hydroacoustic Survey 10 (July 16 – 23, 2015): Fish Density 100 m Segments

Figure F-30 Daytime Fish Hydroacoustic Survey 11 (August 12 – 19, 2015): Fish Density 100 m Segments

Figure F-31 Daytime Fish Hydroacoustic Survey 12 (September 14 – 18, 2015): Fish Density 100 m Segments

Figure F-32 Daytime Fish Hydroacoustic Survey 13 (October 30 – November 4, 2015): Fish Density 100 m Segments

Figure F-33 Daytime Fish Hydroacoustic Survey 14 (November 26 – December 3, 2015): Fish Density 100 m Segments

Figure F-34 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 9 (July 2 – 8, 2015): Fish Density 100 m Segments

Figure F-35 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 10 (July 16 – 23, 2015): Fish Density 100 m Segments

Figure F-36 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 11 (August 12 – 19, 2015): Fish Density 100 m Segments

Figure F-37 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 12 (September 14 – 19, 2015): Fish Density 100 m Segments

Figure F-38 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 13 (October 30 – November 4, 2015): Fish Density 100 m Segments

Figure F-39 Survey Areas G, H, and I: Daytime Fish Hydroacoustic Survey 14 (November 26 – December 3, 2015): Fish Density 100 m Segments

Figure F-40 Nighttime Fish Hydroacoustic Survey 1 (May 1 – 3, 2015): MVBS 500 m Segments

Figure F-41 Nighttime Fish Hydroacoustic Survey 2 (May 12 – 14, 2015): MVBS 500 m Segments

Figure F-42 Nighttime Fish Hydroacoustic Survey 3 (May 25 – 29, 2015): MVBS 500 m Segments

Figure F-43 Nighttime Fish Hydroacoustic Survey 4 (June 3 – 6, 2015): MVBS 500 m Segments

Figure F-44 Nighttime Fish Hydroacoustic Survey 7 (June 24 – 28, 2015): MVBS 500 m Segments

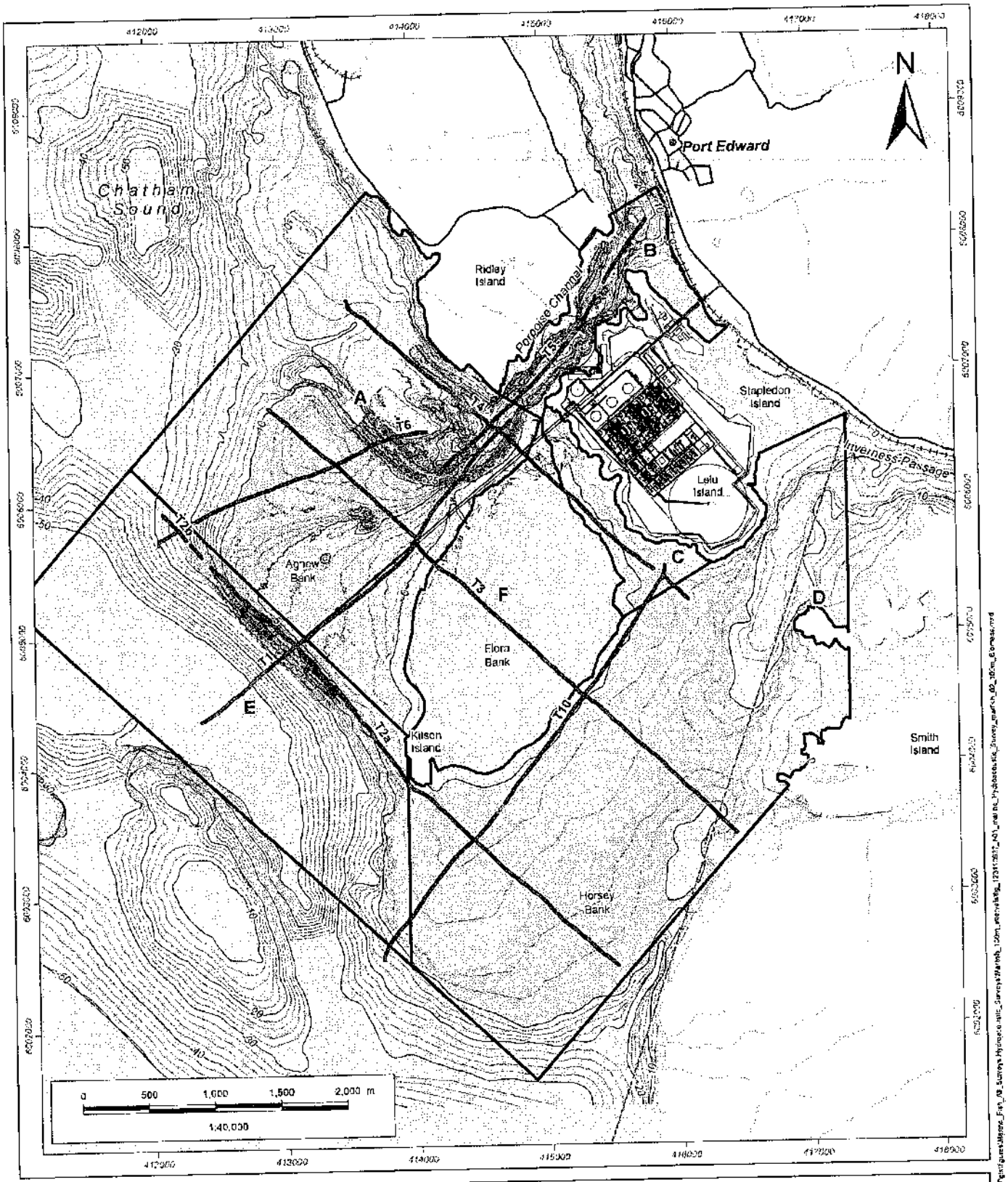
Figure F-45 Survey Areas G, H, and I: Nighttime Fish Hydroacoustic Survey 7 (June 29, 2015): MVBS 500 m Segments

Figure F-46 Nighttime Fish Hydroacoustic Survey 8 (July 2 – 8, 2015): MVBS 500 m Segments

Figure F-47 Survey Areas G, H, and I: Nighttime Fish Hydroacoustic Survey 8 (July 8 – 9, 2015): MVBS 500 m Segments

Figure F-48 **Nighttime Fish Hydroacoustic Survey 9 (July 10 – 14, 2015): MVBS 500 m Segments**

Figure F-49 **Survey Areas G, H, and I: Nighttime Fish Hydroacoustic Survey 9 (July 15 – 16, 2015): MVBS 500 m Segment**



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Project Component

Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Pacific NorthWest LNG

Daytime Fish Hydroacoustic Survey 2 (January 29 - 31, 2015): MVBS 100 m Segments

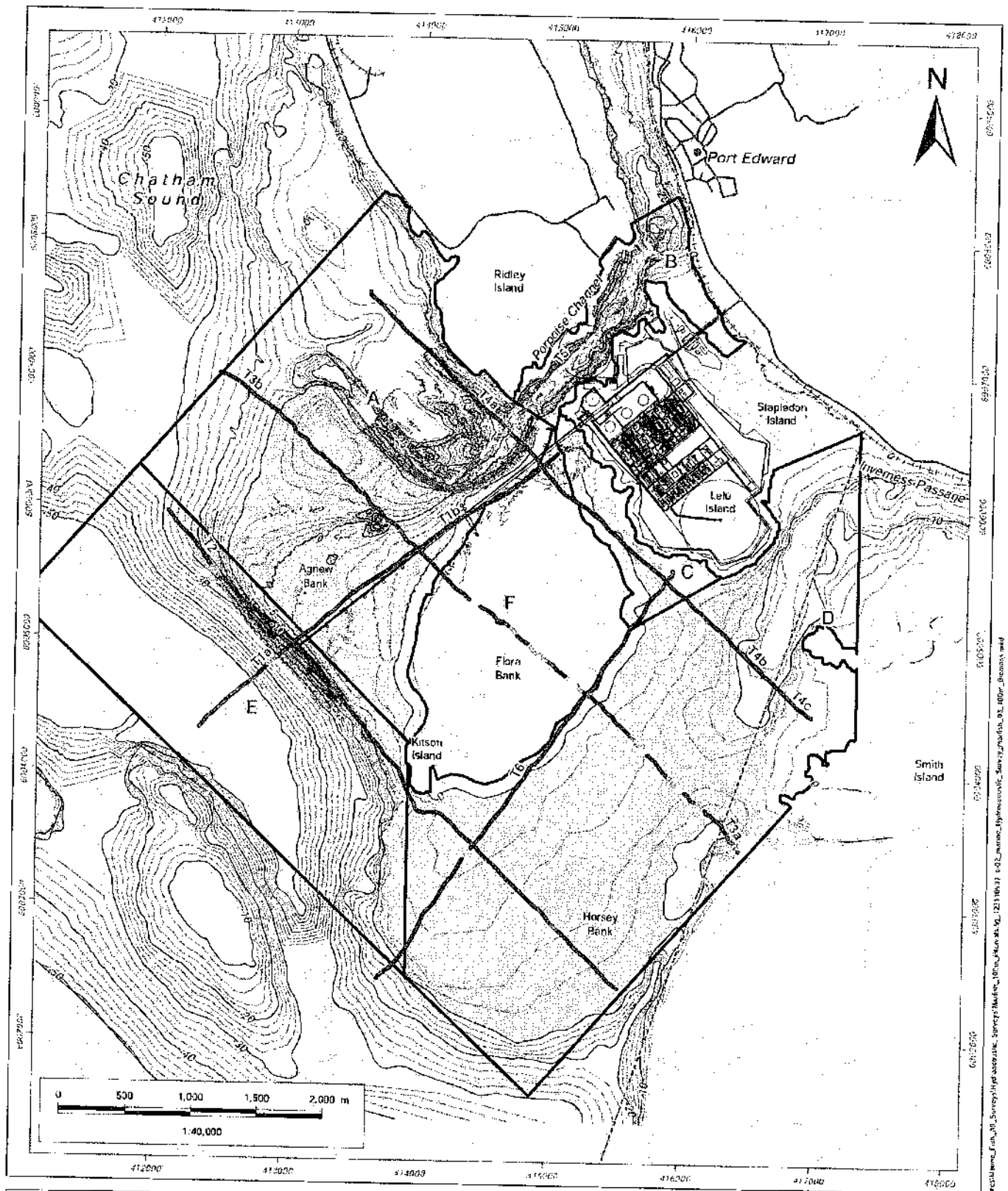
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 12311-0537
DRAWN BY: S. PARKER
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: **F-1**



Mean Volume Backscatter (MVBS) (dB)
-80 and less
-75 to -80
-70 to -75
-65 to -70
-60 to -65
-55 to -60
-55 and greater
Substantial Plankton

Bathymetry (m)
Major Contour
Minor Contour
Railway
Secondary Road
Watercourse

Project Component
Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

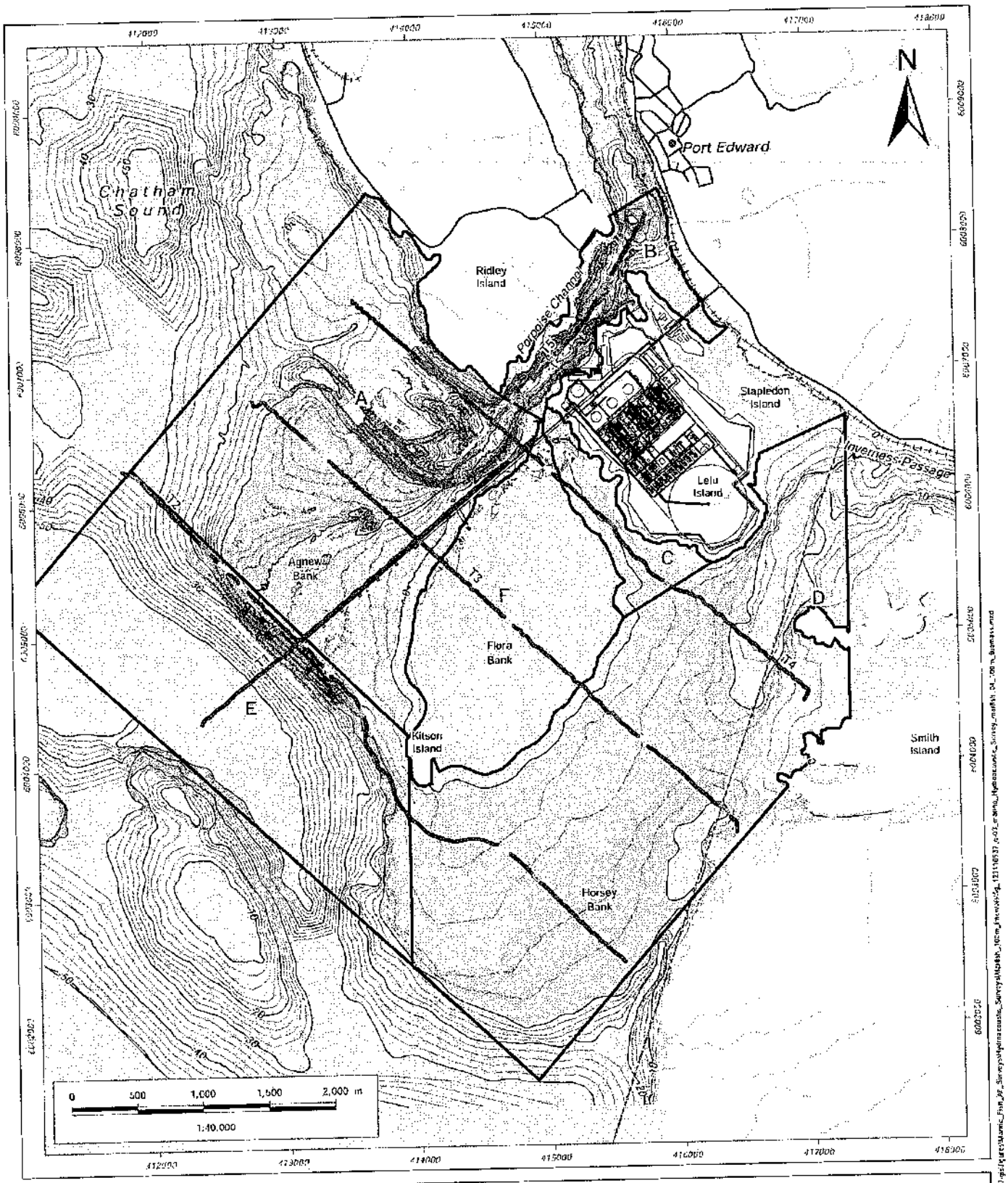
Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 3
(February 18 - 21, 2015):
MVBS 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Pengrowth Energy Canada Ltd

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-15
FIGURE ID: 1231105.07
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-2



Mean Volume Backscatter (MVBS) (dB)
-80 and less
-75 to -80
-70 to -75
-65 to -70
-60 to -65
-55 to -60
-55 and greater
Substantial Plankton

Project Component
Bathymetry (m)
Major Contour
Minor Contour
Railway
Secondary Road
Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

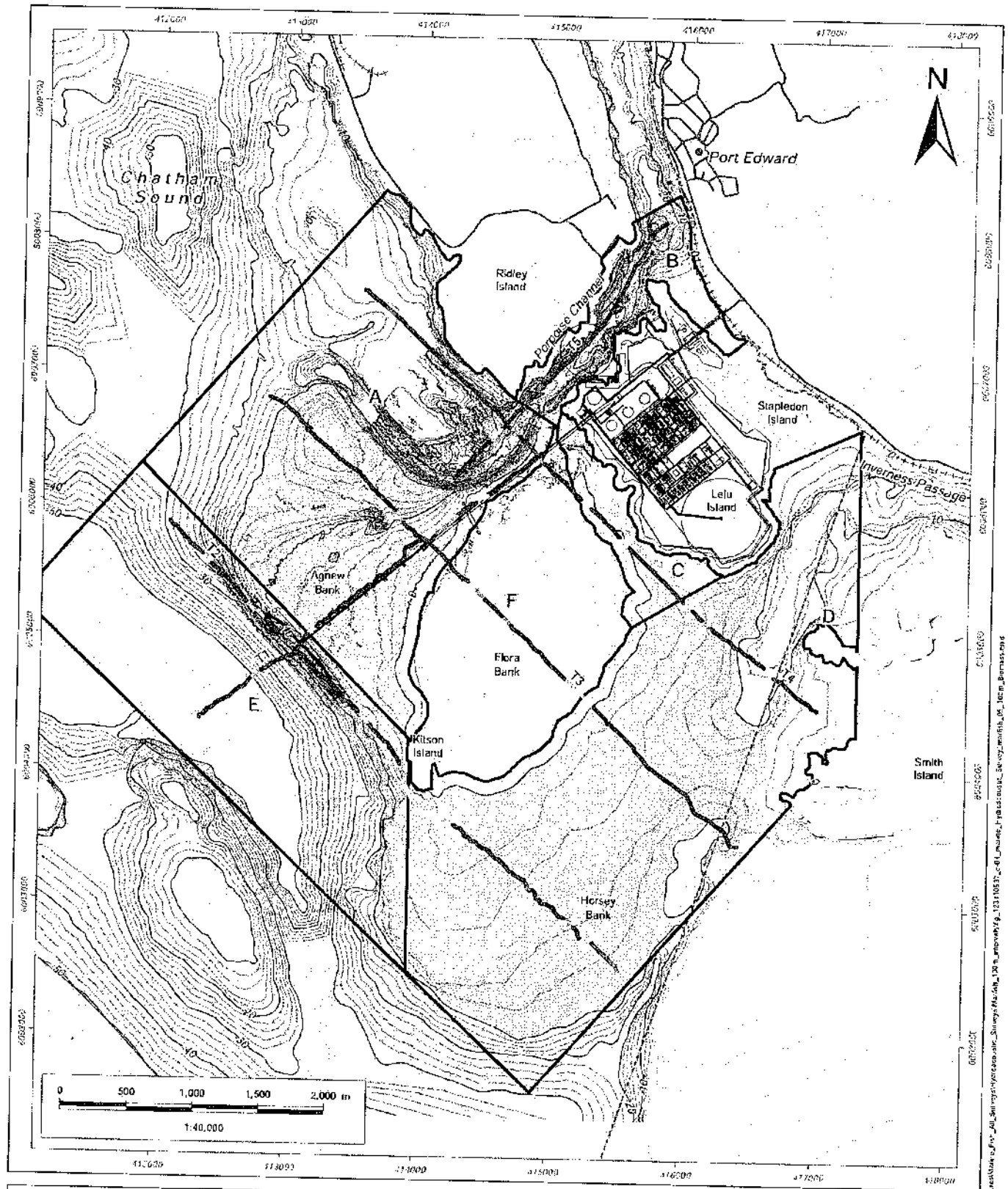
Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 4 (March 23 - 24, 2015): MVBS 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-15
FIGURE ID: 123110537
DRAWN BY: S. PARKER
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-3



Mean Volume Backscatter (MVBS) (dB)
-80 and less
-75 to -80
-70 to -75
-65 to -70
-60 to -65
-55 to -60
-55 and greater
Substantial Plankton

Project Component
Bathymetry (m)
Major Contour
Minor Contour
Railway
Secondary Road
Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 5
(April 26 - 27, 2015):
MVBS 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Governments of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: L. HOPPER
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-4



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Project Component
Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 6
(May 21 - 23, 2015):
MVBS 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-5



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

- Project Component
- Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse
- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

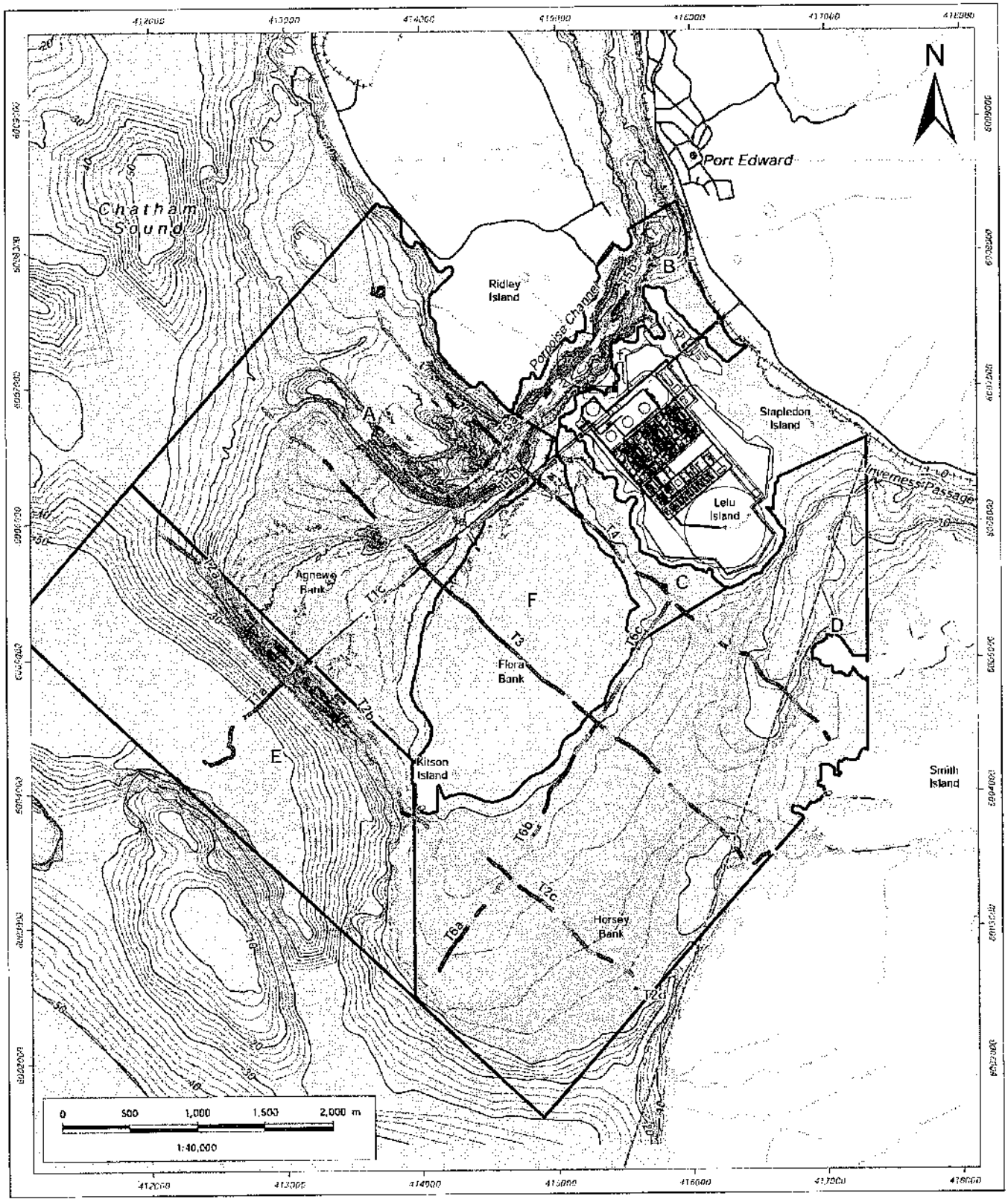
Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 7
(June 9 - 10, 2015):
MVBS 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or on the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110637
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-6



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Project Component

Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG

Daytime Fish Hydroacoustic Survey 9 (July 2 - 8, 2015): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-7



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Project Component

Bathymetry (m)

- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG

Daytime Fish Hydroacoustic Survey 10 (July 16 - 23, 2015): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Programs Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or to the process itself, users of these data are advised that errors in the data may be present.

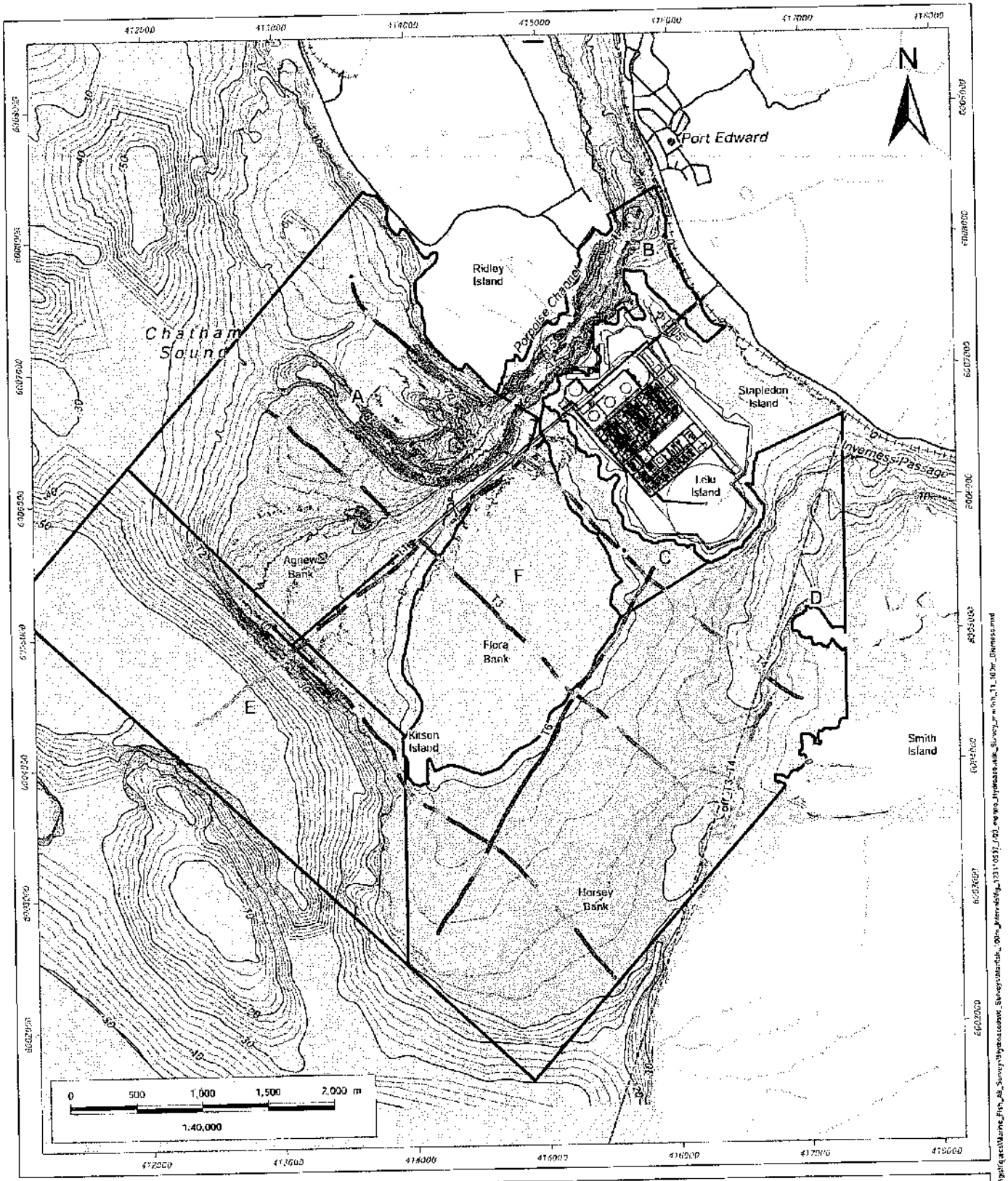
DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest

FIGURE NO.

F-8



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Project Component

Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 11
(August 12 - 19, 2015):
MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

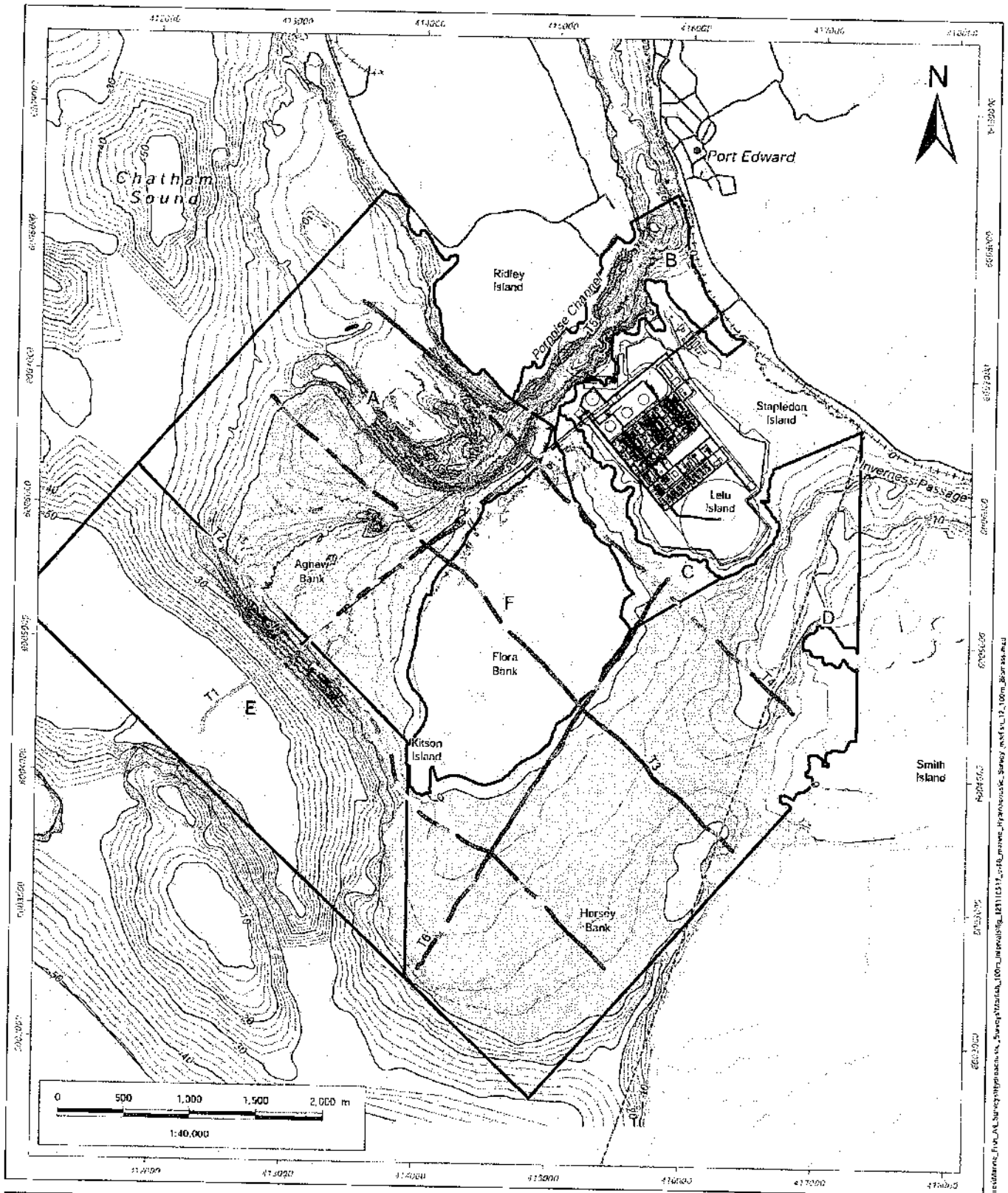
Sources: Government of British Columbia, Prince Rupert Port Authority, Government of Canada, Natural Resources Canada, Centre for Topographic Information, Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: P. REECE

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG

FIGURE NO.
F-9



Mean Volume Backscatter (MVBS) (dB)
-80 and less
-75 to -80
-70 to -75
-65 to -70
-60 to -65
-55 to -60
-55 and greater
Substantial Plankton

Project Component
Bathymetry (m)
Major Contour
Minor Contour
Railway
Secondary Road
Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Pacific NorthWest LNG

Daytime Fish Hydroacoustic Survey 12 (September 14 - 19, 2015): MVBS 100 m Segments

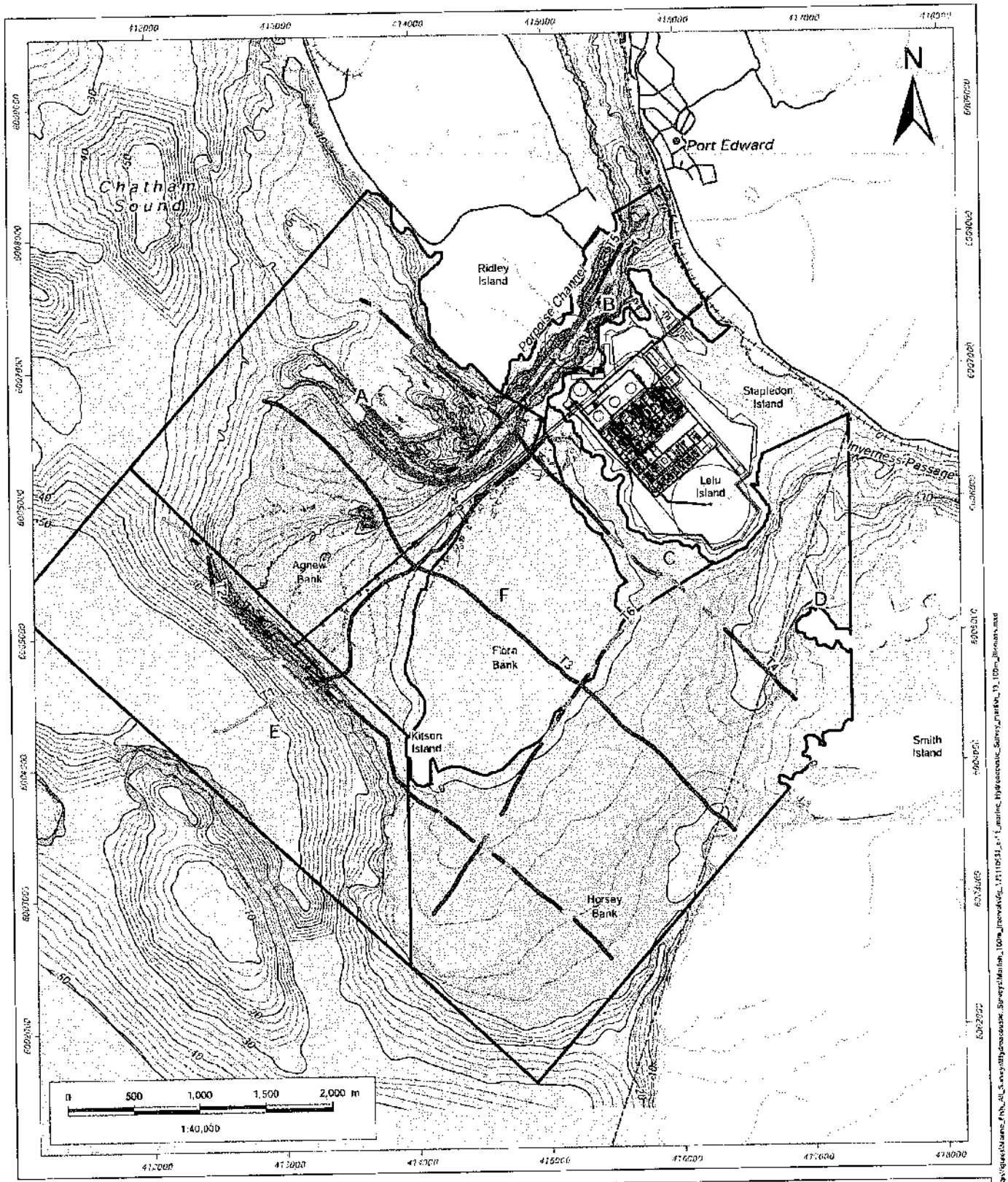
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-10



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

- Project Component
- Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse
- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

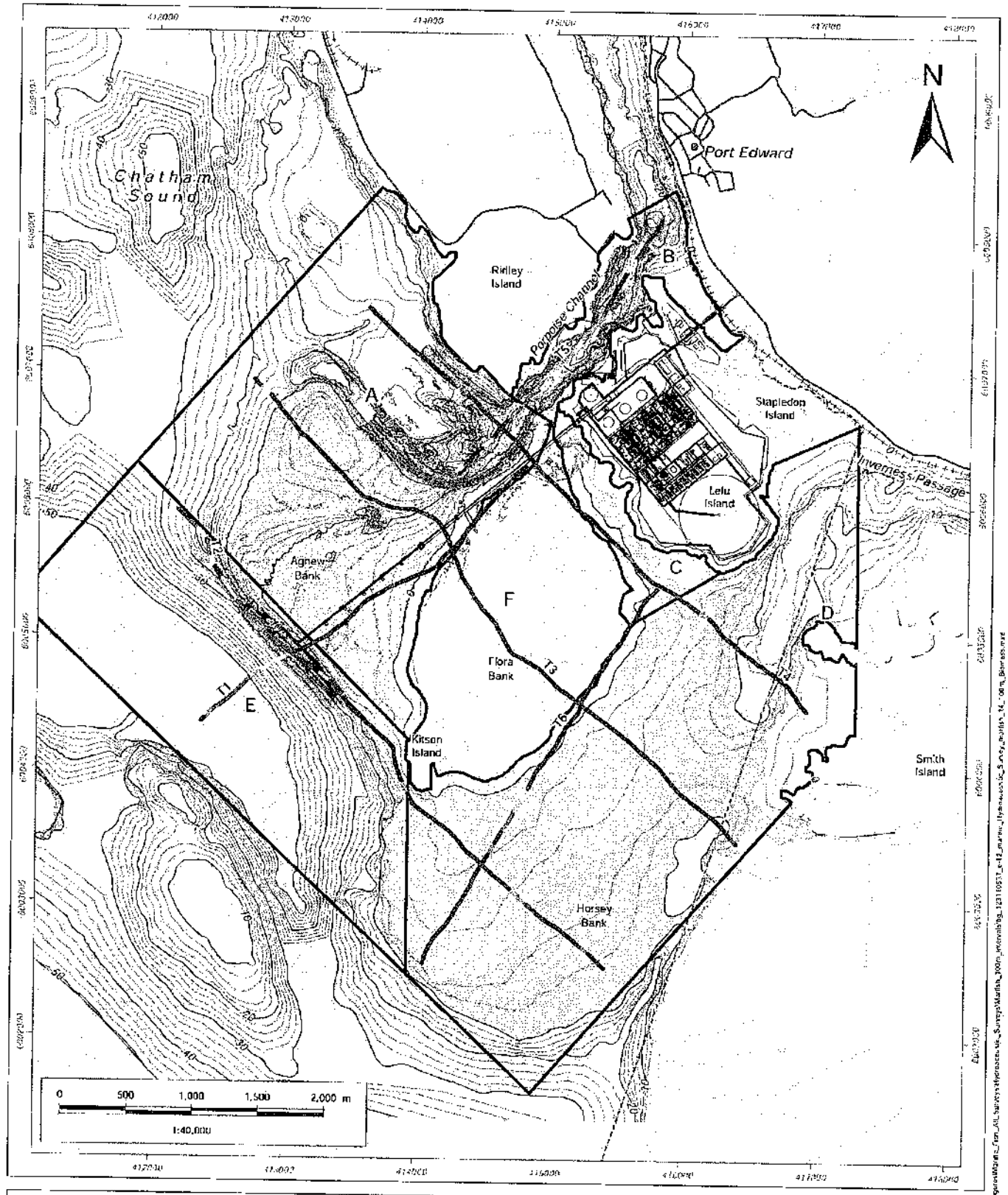
Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 13
(October 30 - November 4, 2015):
MVBS 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the process itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 1231-0537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-11



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Project Component

Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 14 (November 26 - December 3, 2015): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES

PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-12



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Project Component

Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 15
(December 10-13, 2015):
MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG

FIGURE NO:
F-13



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater

Project Component
Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 16 (January 17-24, 2016): MVBS 100 m Segments

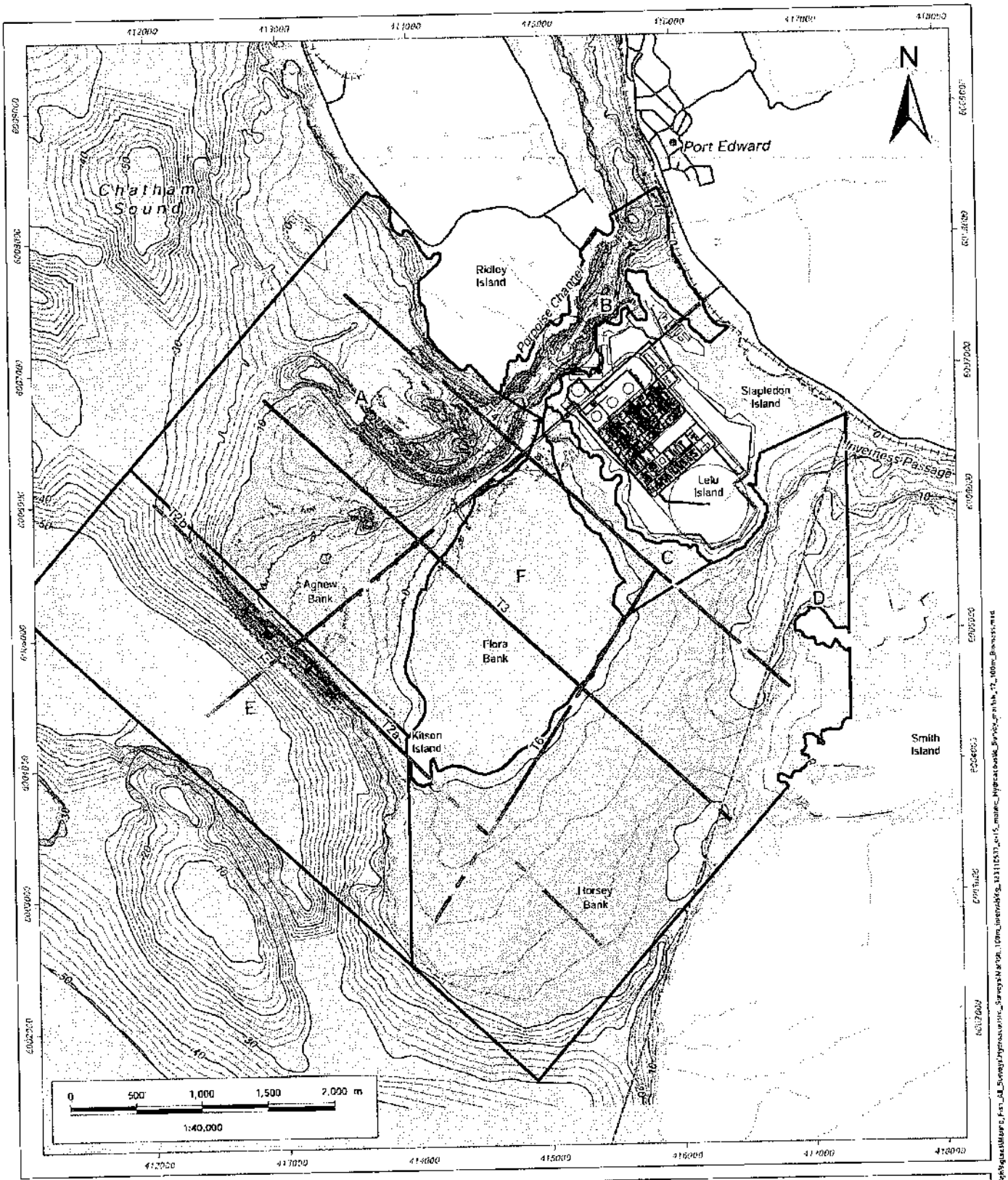
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: J. NELSON

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-14



Pacific NorthWest LNG

Daytime Fish Hydroacoustic Survey 17 (February 11-17, 2016): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

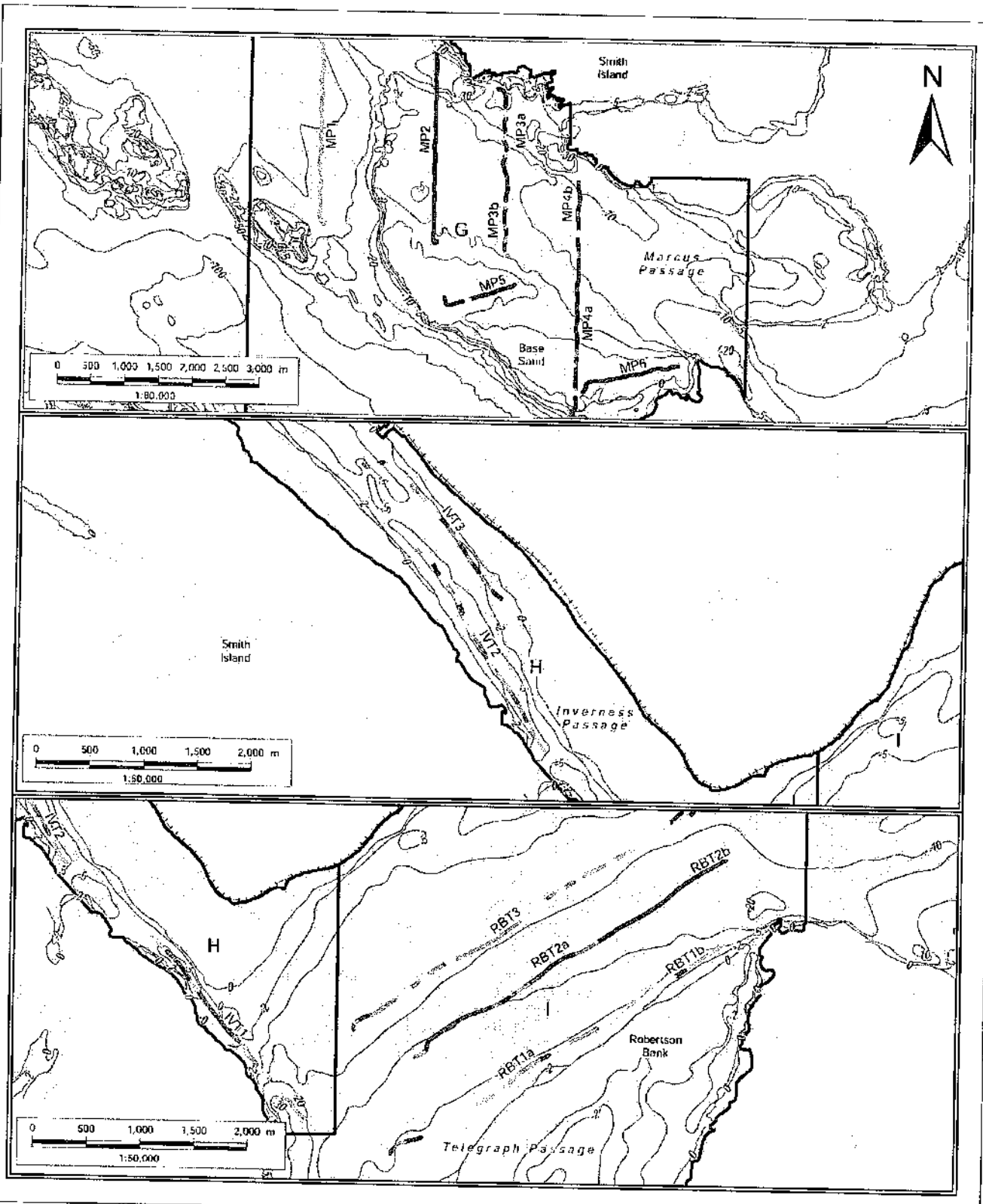
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: J. NELSON

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-15



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I

Daytime Fish Hydroacoustic Survey 9 (July 2 - 8, 2015): MVBS 100 m Segments

MARINE FISH PROGRAM FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

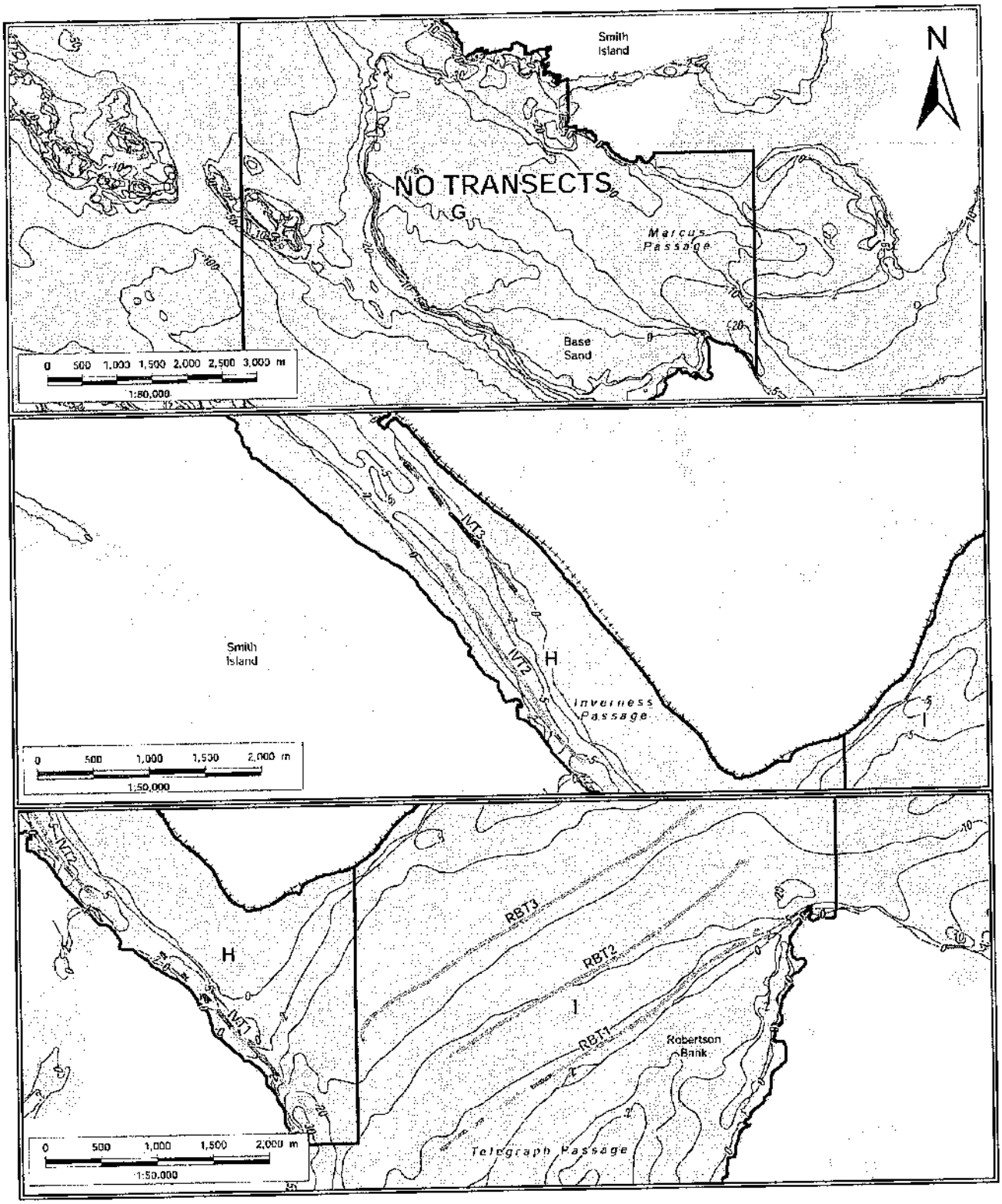
DATE: 20-APR 16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL

PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest

FIGURE NO: F-16



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)
Survey Area
Railway
Watercourse
Waterbody
Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I
Daytime Fish Hydroacoustic Survey 10
(July 16 - 23, 2015): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

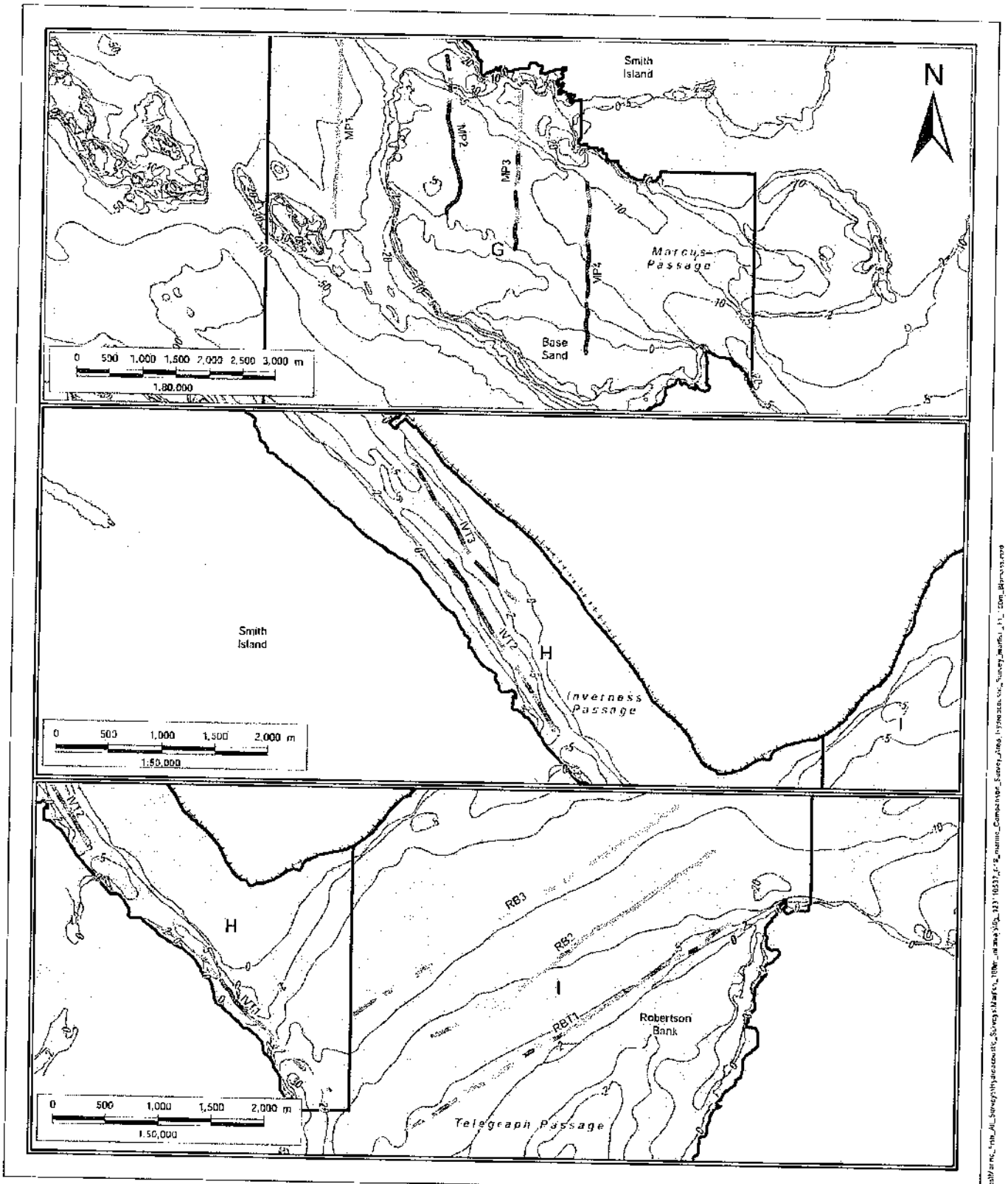
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-17



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

- Depth Contour (m)
- Survey Area
- Railway
- Watercourse
- Waterbody
- Intertidal Bank

Pacific NorthWest LNG
Survey Areas G, H, I
Daytime Fish Hydroacoustic Survey 11
(Aug 12 - 19, 2015): MVBS 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

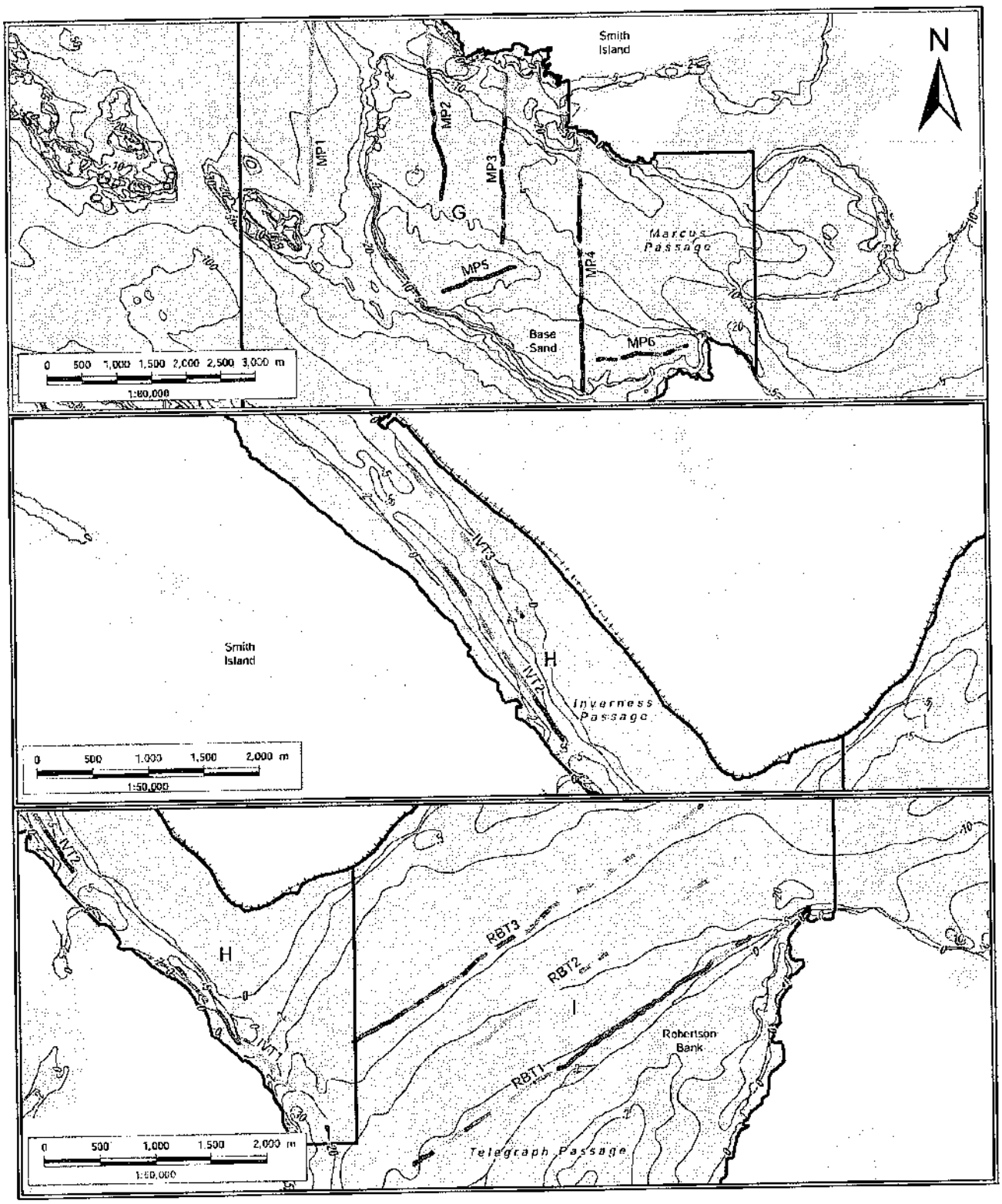
Sources: Geographics of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: S. PARKER
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG

FIGURE NO.
F-18



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)

Railway

Watercourse

Waterbody

Intertidal Bank

Survey Area

Pacific NorthWest LNG

Survey Areas G, H, I

Daytime Fish Hydroacoustic Survey 12 (Sept 14 - 19, 2015): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

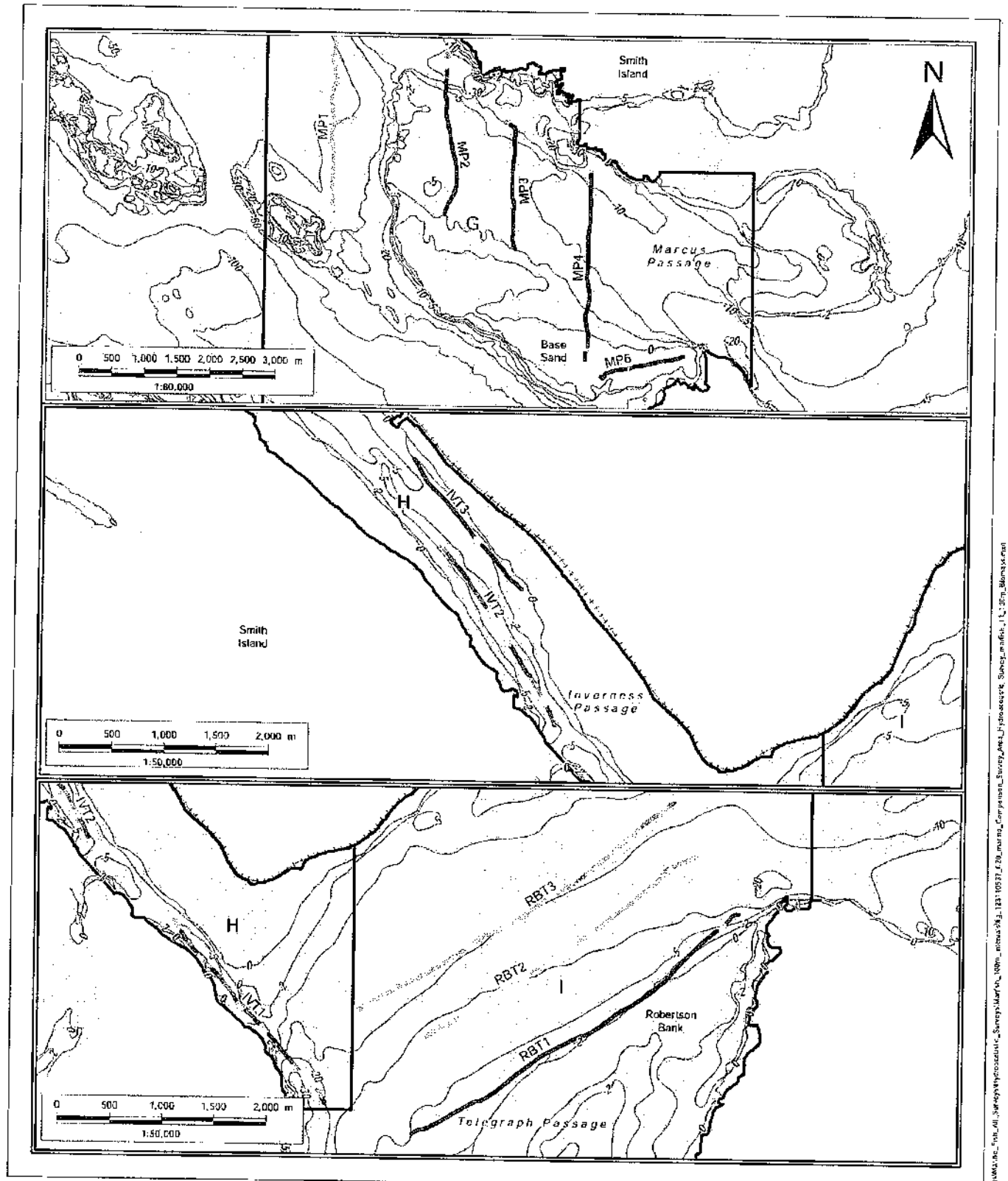
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-19



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I

Daytime Fish Hydroacoustic Survey 13 (Oct 30 - Nov 4, 2015): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

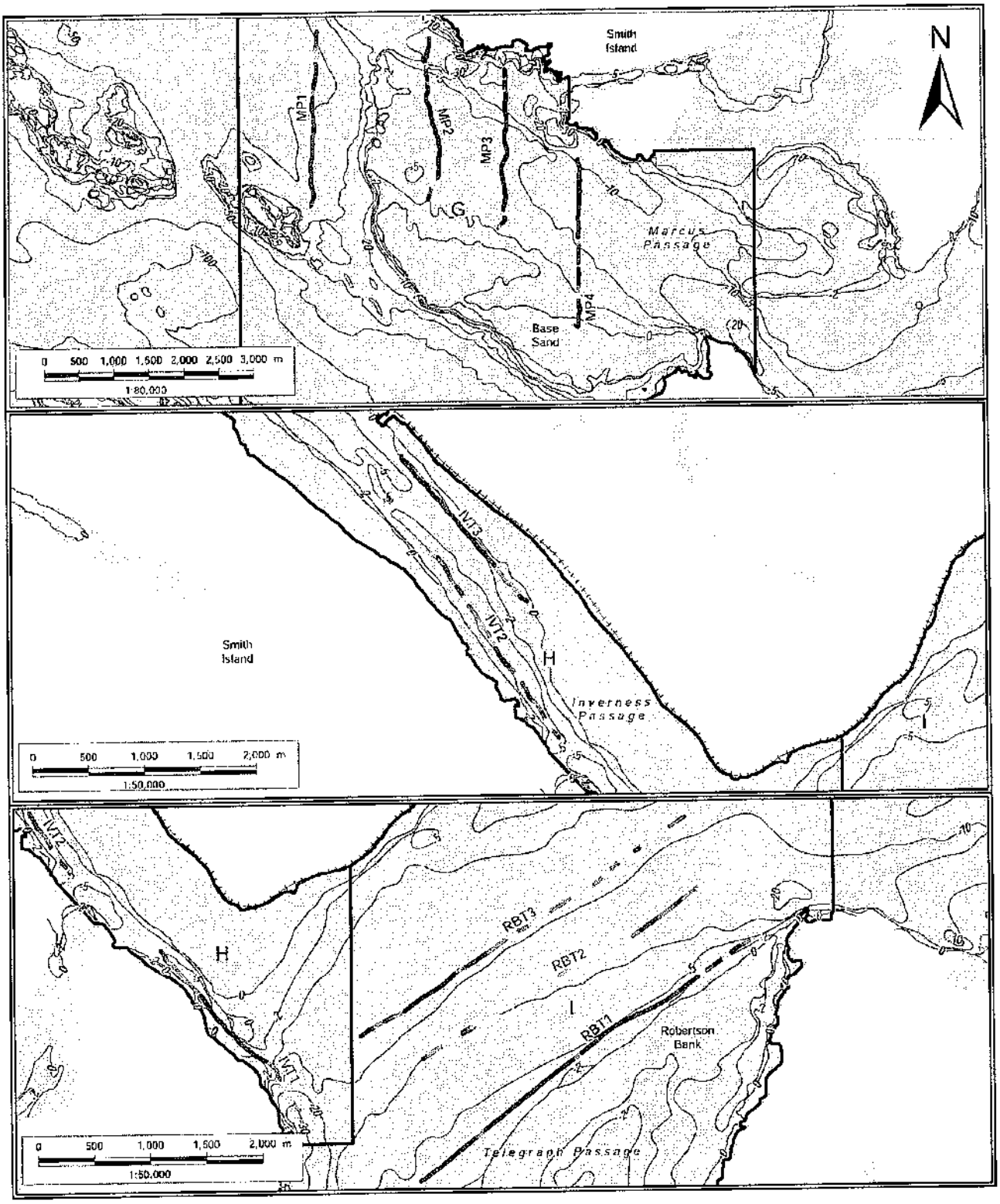
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-20



Mean Volume Backscatter (MVBS) (dB)
-80 and less
-75 to -80
-70 to -75
-65 to -70
-60 to -65
-55 to -60
-55 and greater
Substantial Plankton

Depth Contour (m)
Survey Area
Railway
Watercourse
Waterbody
Intertidal Bank

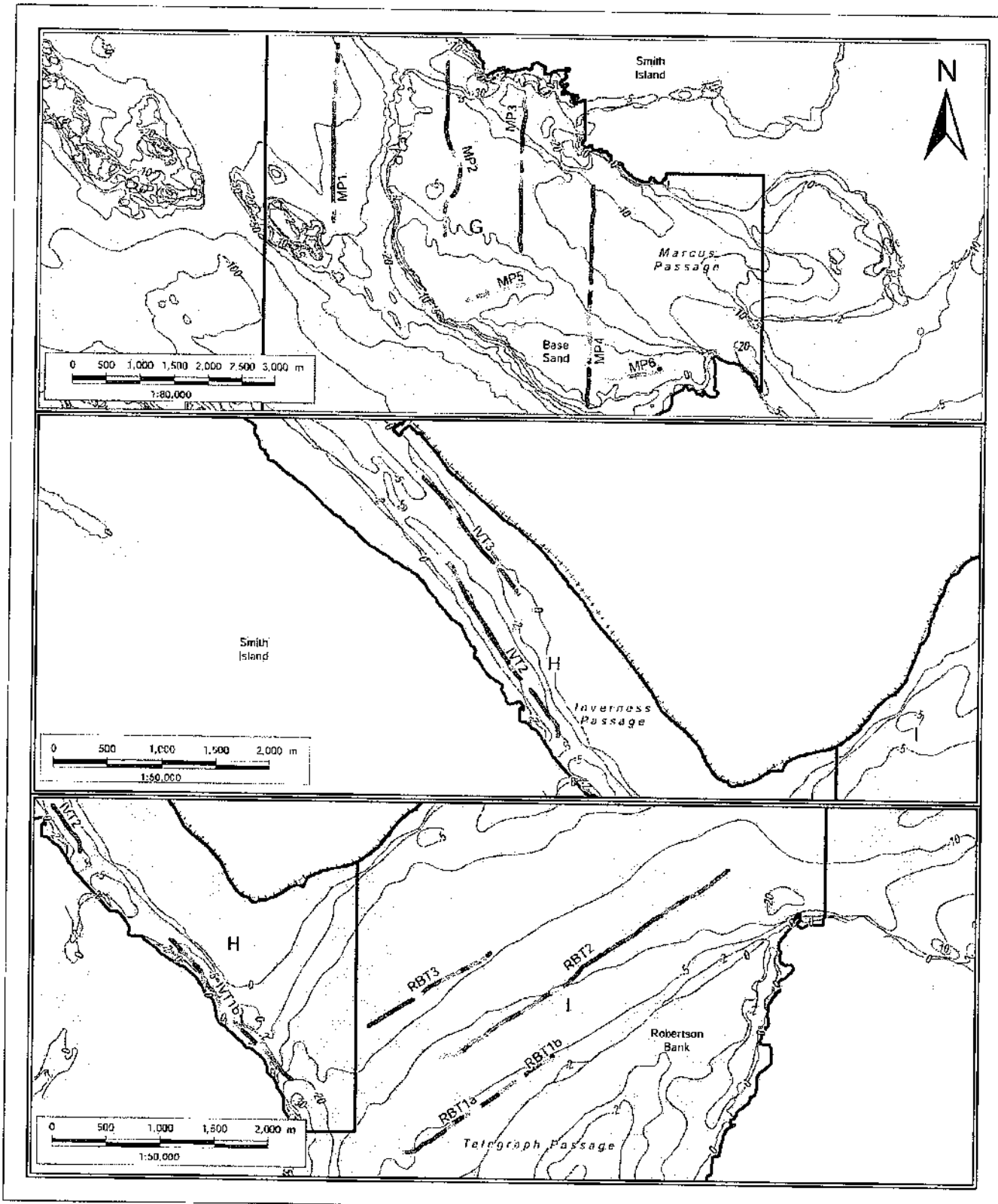
Pacific NorthWest LNG
Survey Areas G, H, I
Daytime Fish Hydroacoustic Survey 14
(Nov 26 - Dec 3, 2015): MVBS 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada; Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-21



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to 80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I

Daytime Fish Hydroacoustic Survey 15 (Dec 10-13, 2015): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

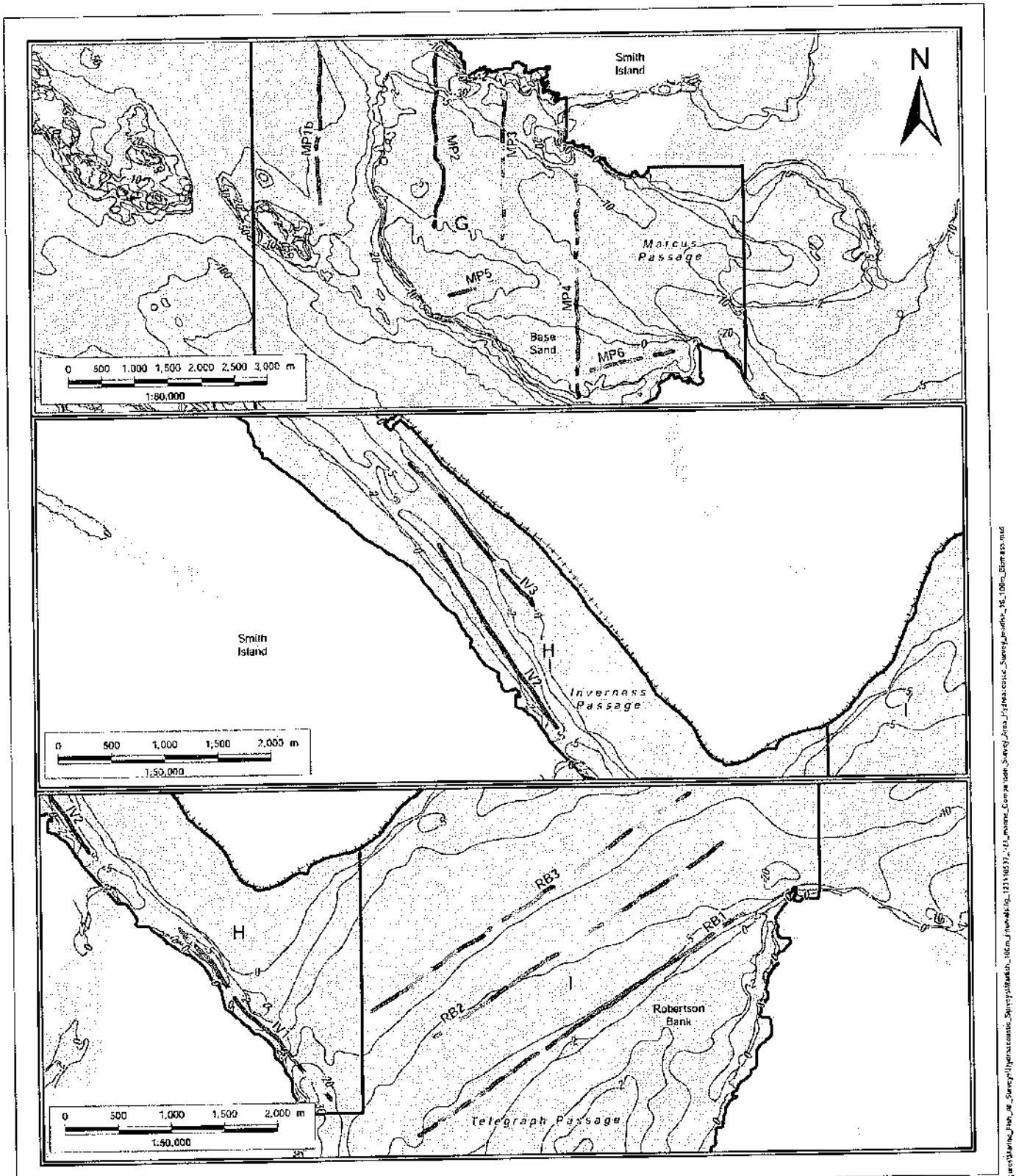
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: S. PARKER	CHECKED BY: M.BAILEY

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-22



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I

Daytime Fish Hydroacoustic Survey 16 (Jan 17-24, 2016): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information, Progress Energy Canada Ltd.

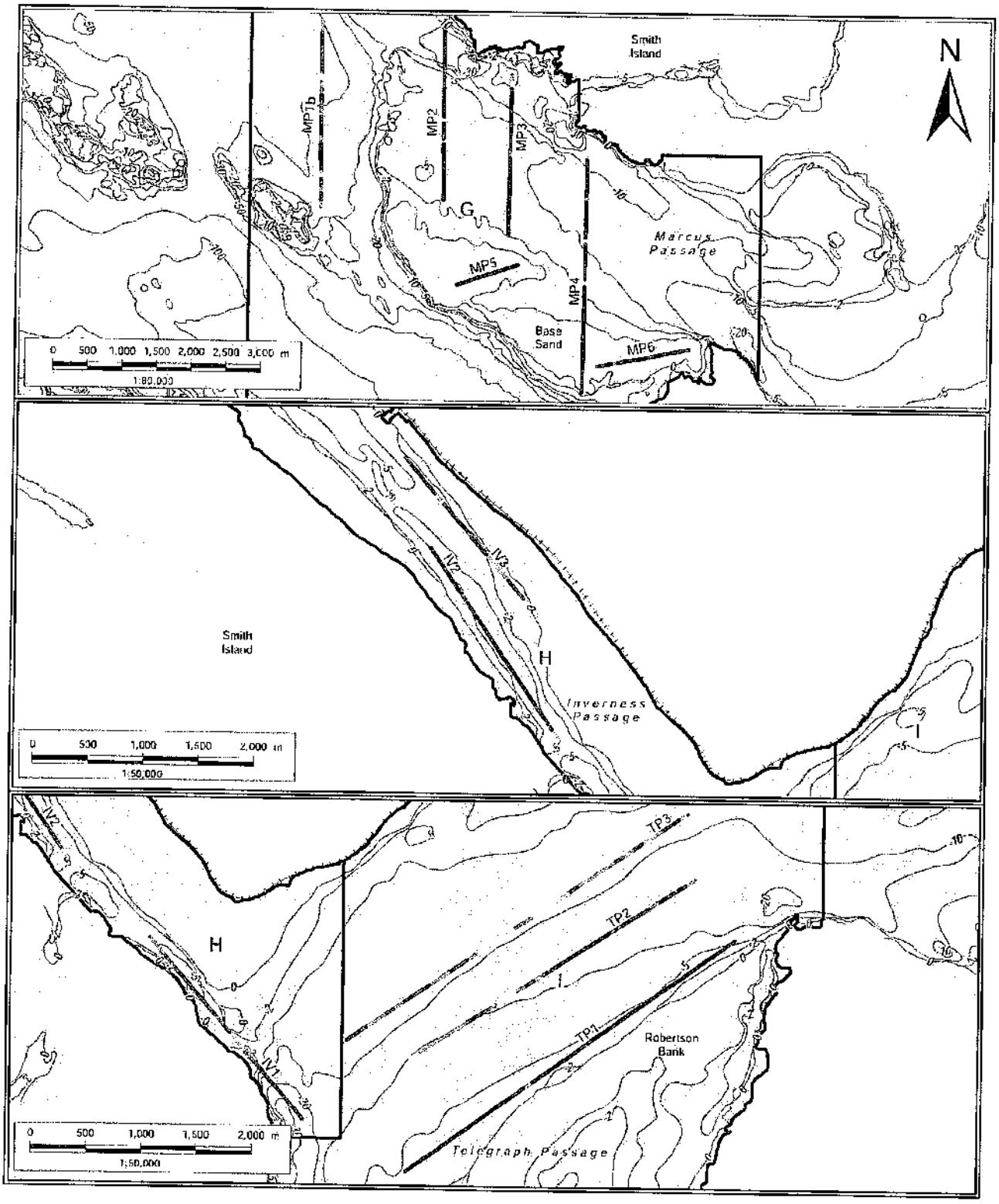
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 1231-0537
DRAWN BY: R.COATTA
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: J.NELSON

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-23



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I

Daytime Fish Hydroacoustic Survey 17 (Feb 11-17, 2016): MVBS 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

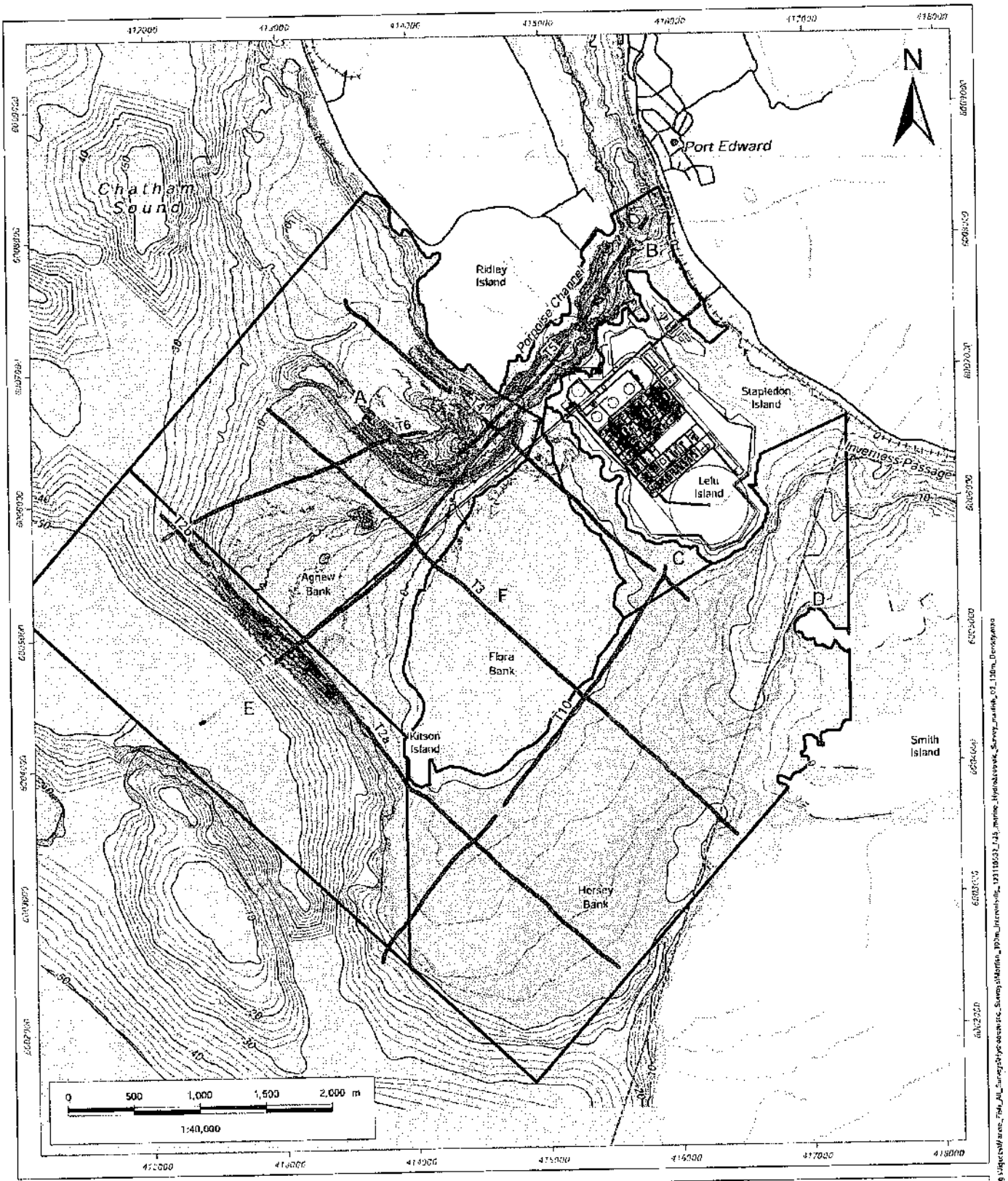
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 173110537	DATUM: NAD 83
DRAWN BY: R.COATTA	CHECKED BY: J.NELSON

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-24



Acoustic Fish Density Estimates (Fish/ha)
- < 1
- 1 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000
- Substantial Plankton

Project Component

Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 2
(January 29 - 31, 2015):
Fish Density 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

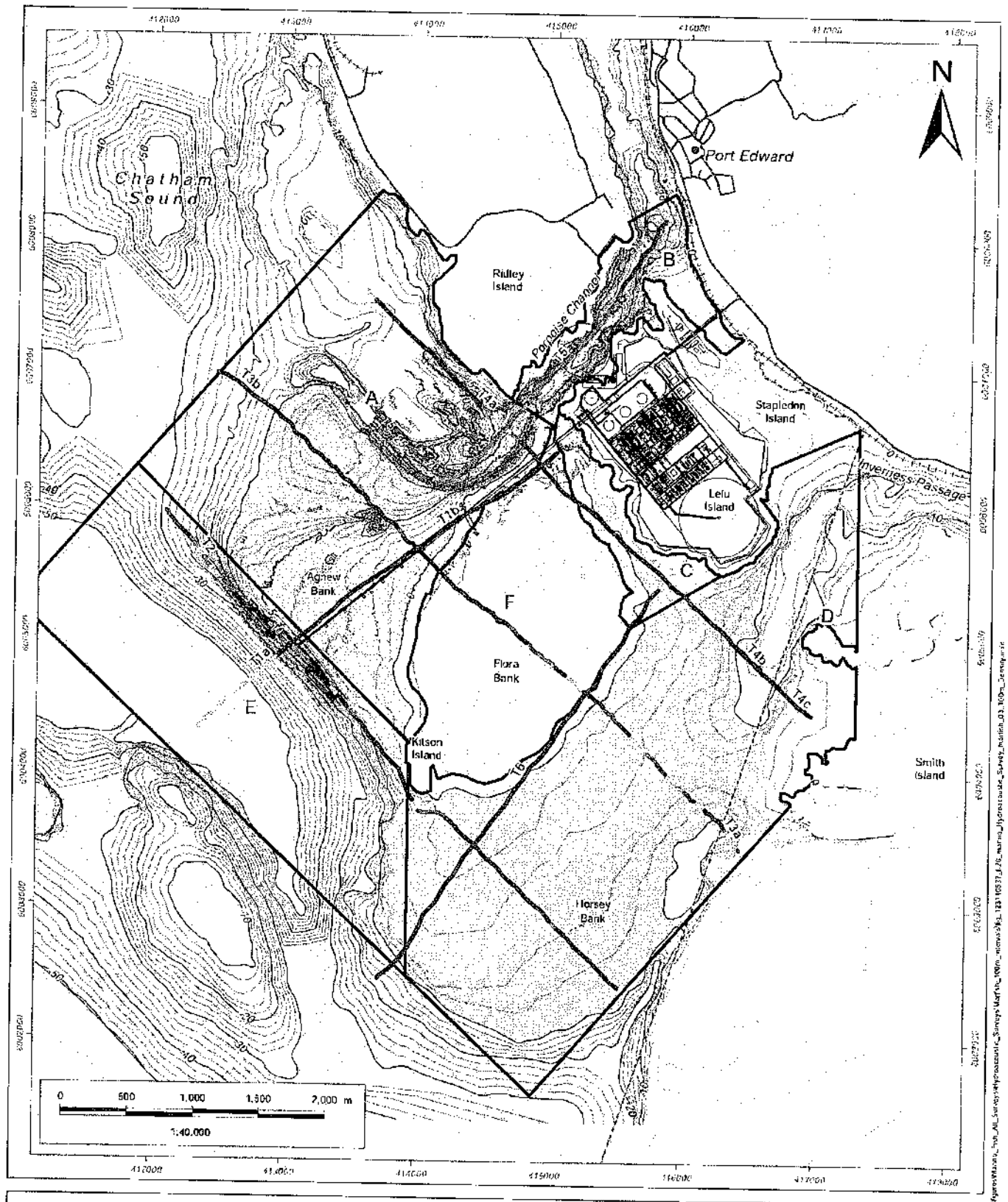
DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: S. PARKER

PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-25



Acoustic Fish Density Estimates (Fish/ha)
- < 1
- 1 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000
- Substantial Plankton

Project Component

Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG

Daytime Fish Hydroacoustic Survey 3 (February 18 - 21, 2015): Fish Density 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

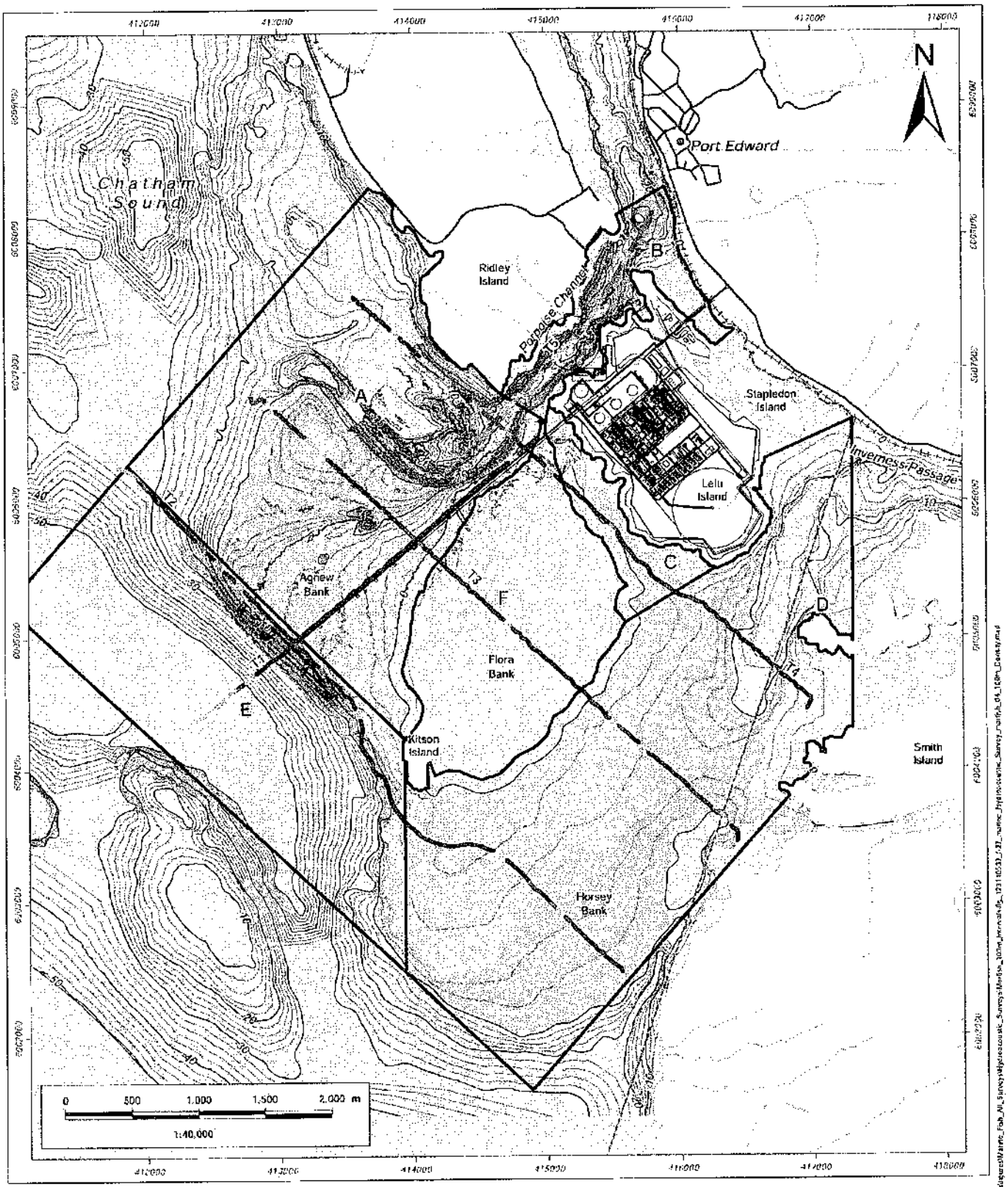
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO
F-26



Acoustic Fish Density Estimates (Fish/ha)

- < 1
- 1 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000
- Substantial Plankton

- Project Component
- Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse
- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG

Daytime Fish Hydroacoustic Survey 4 (March 23 - 24, 2015): Fish Density 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE 20-APR-16
FIGURE ID: 123110537
DRAWN BY: L. HOPPER

PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-27



Acoustic Fish Density Estimates (Fish/ha)
- < 1
- 1 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000
- Substantial Plankton

Project Component
Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 9
(July 2 - 8, 2015):
Fish Density 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

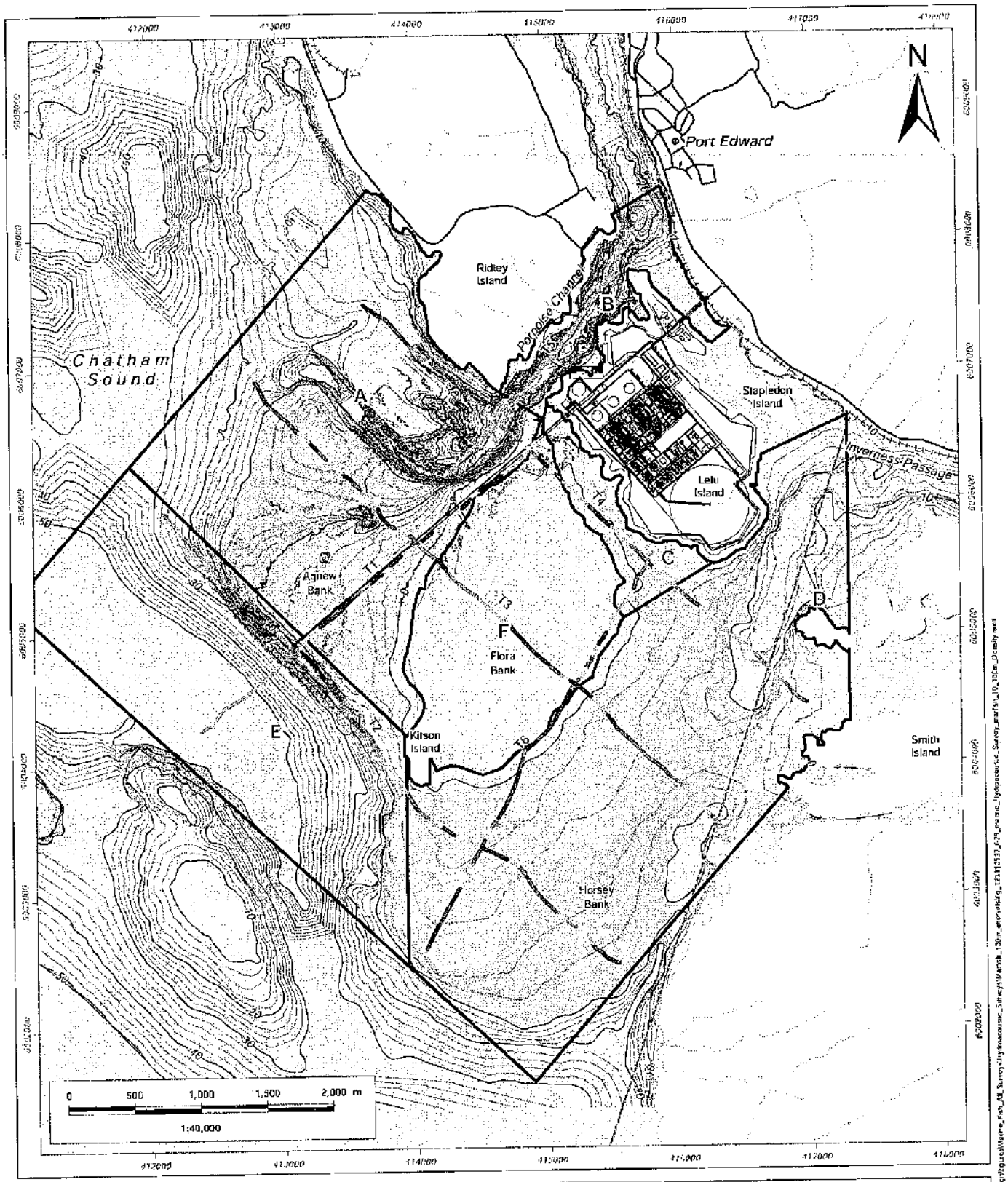
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECT ON: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-28



Acoustic Fish Density Estimates (Fish/ha)
- < 1
- 1 - 100
- 100 - 500
- 500 - 1000
- 1000 - 10000
- > 10000
- Substantial Plankton

- Project Component
- Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse
- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

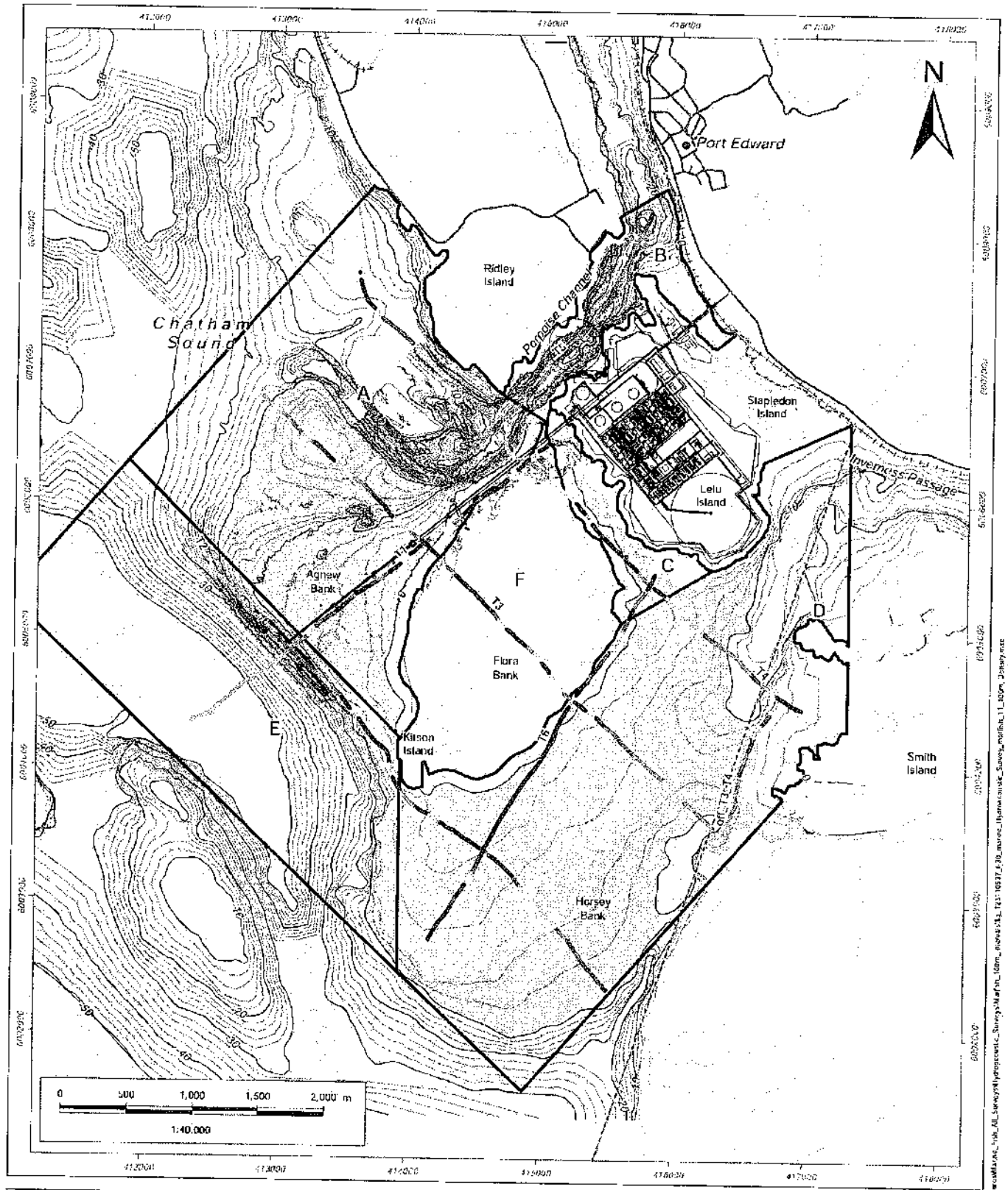
Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 10
(July 16 - 23, 2015):
Fish Density 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Pregoss Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-29



Acoustic Fish Density Estimates (Fish/ha)
- < 1
- 1 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000
- Substantial Plankton

Project Component

Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 11 (August 12 - 19, 2015):
Fish Density 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: P. REECE

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG

FIGURE NO.
F-30



Acoustic Fish Density Estimates (Fish/ha)
- < 1
- 1 - 100
- 100 - 500
- 500 - 1000
- 1000 - 10000
- > 10000
- Substantial Plankton

Project Component
Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 12 (September 14 - 19, 2015): Fish Density 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-31



Acoustic Fish Density Estimates (Fish/ha)
- < 1
- 1 - 100
- 100 - 500
- 500 - 1000
- 1000 - 10000
- > 10000
- Substantial Plankton

Project Component

Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary

Survey Area

Waterbody

Intertidal Bank

0 - 5 m Shoal

5 - 10 m Shoal

Pacific NorthWest LNG

Daytime Fish Hydroacoustic Survey 13 (October 30 - November 4, 2015): Fish Density 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO.

F-32



Acoustic Fish Density Estimates (Fish/ha)
- < 1
- 1 - 100
- 100 - 500
- 500 - 1000
- 1000 - 10000
- > 10000
- Substantial Plankton

Project Component
Bathymetry (m)
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

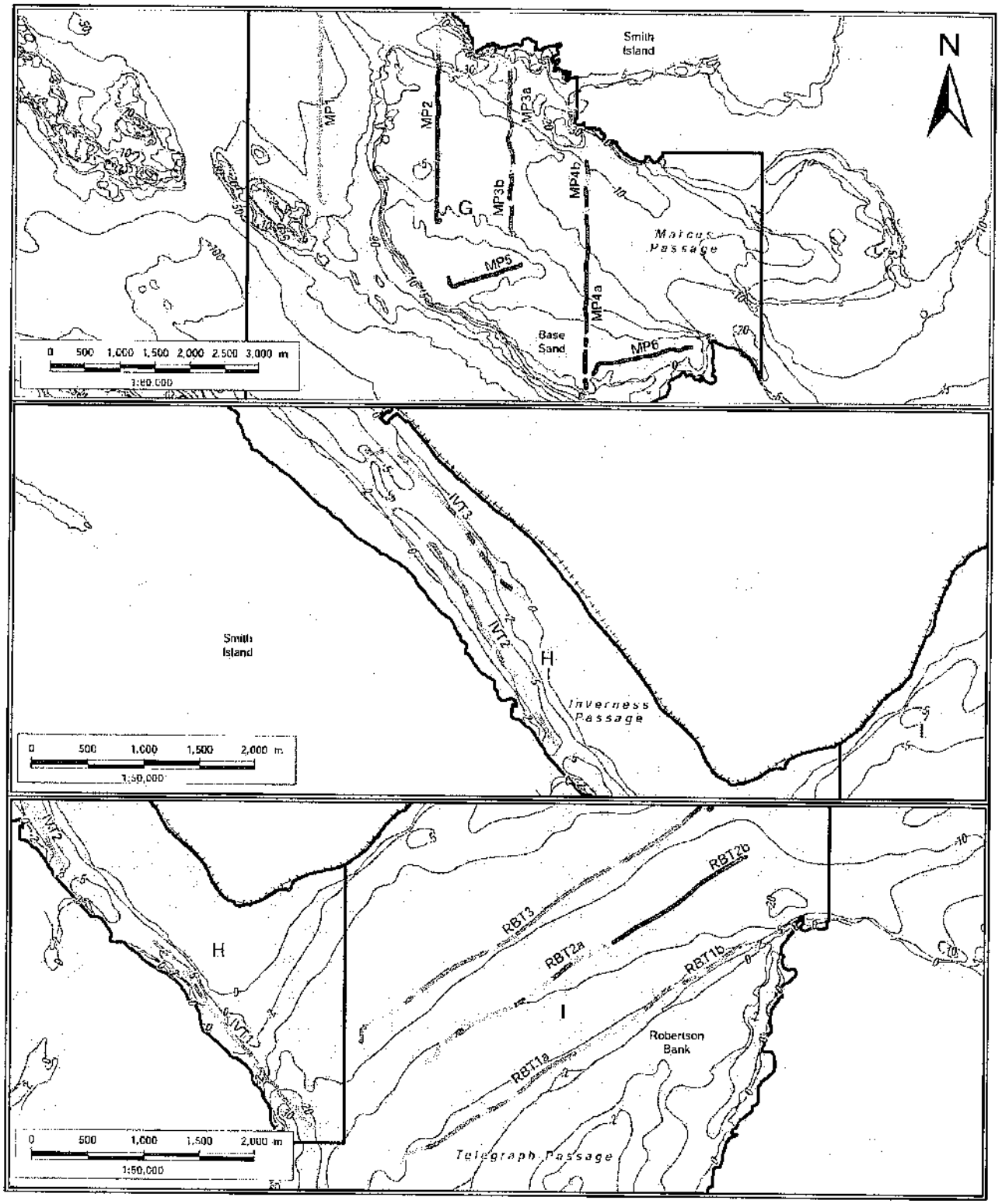
Pacific NorthWest LNG
Daytime Fish Hydroacoustic Survey 14 (November 26 - December 3, 2015): Fish Density 100 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada; Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or is the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-33



Acoustic Fish Density Estimates (Fish/ha)

- < 1
- 1 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I
Daytime Fish Hydroacoustic Survey 9
(July 2 - 8, 2015): Fish Density 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information, Progress Energy Canada Ltd.

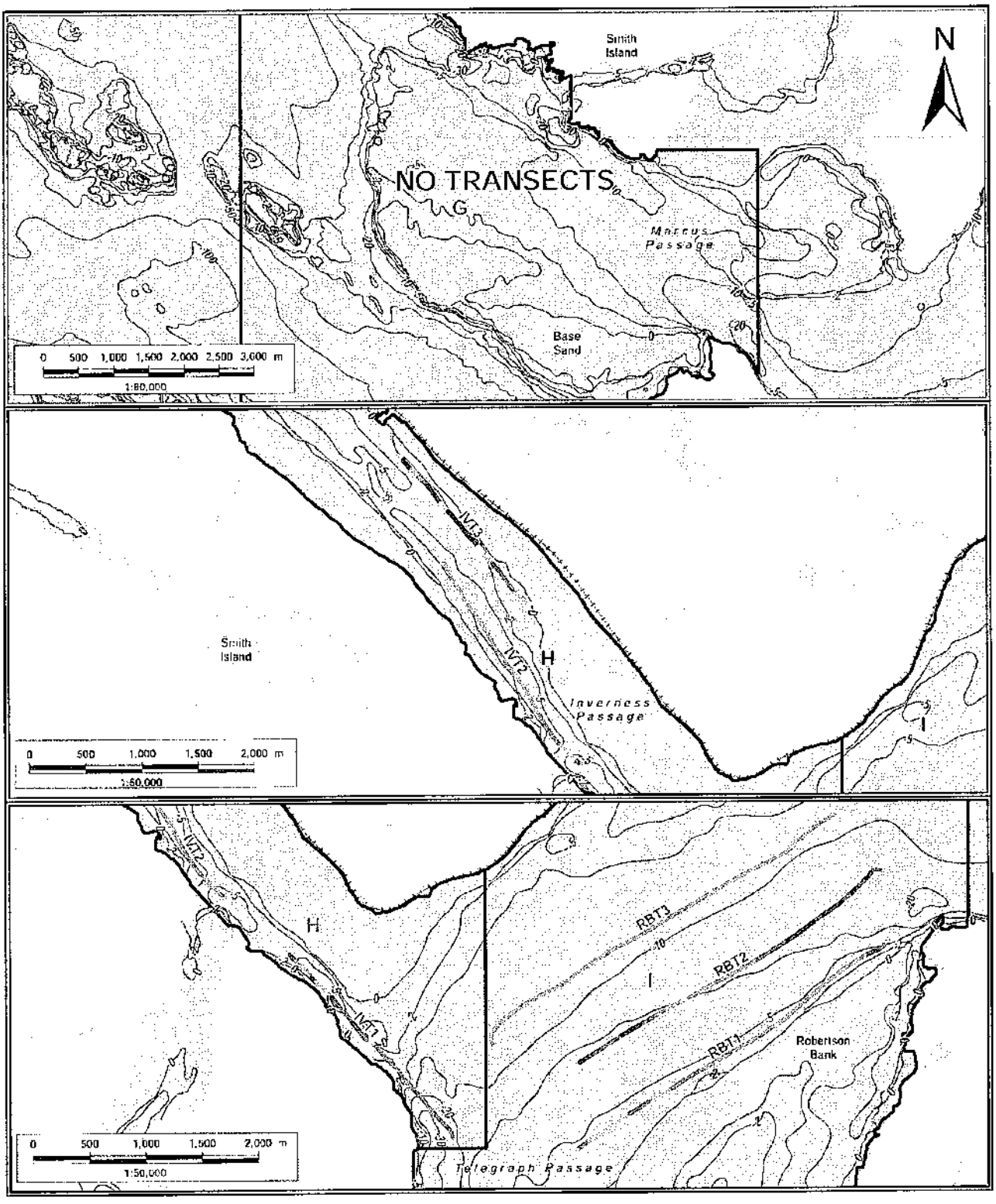
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-34



Acoustic Fish Density Estimates (Fish/ha)

- < 1
- 1 - 100
- 100 - 500
- 500 - 1000
- 1000 - 10000
- > 10000
- Substantial Plankton

Depth Contour (m)
Survey Area
Railway
Watercourse
Waterbody
Intertidal Bank

Pacific NorthWest LNG
Survey Areas G, H, I
Daytime Fish Hydroacoustic Survey 10
(July 16 - 23, 2015): Fish Density 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

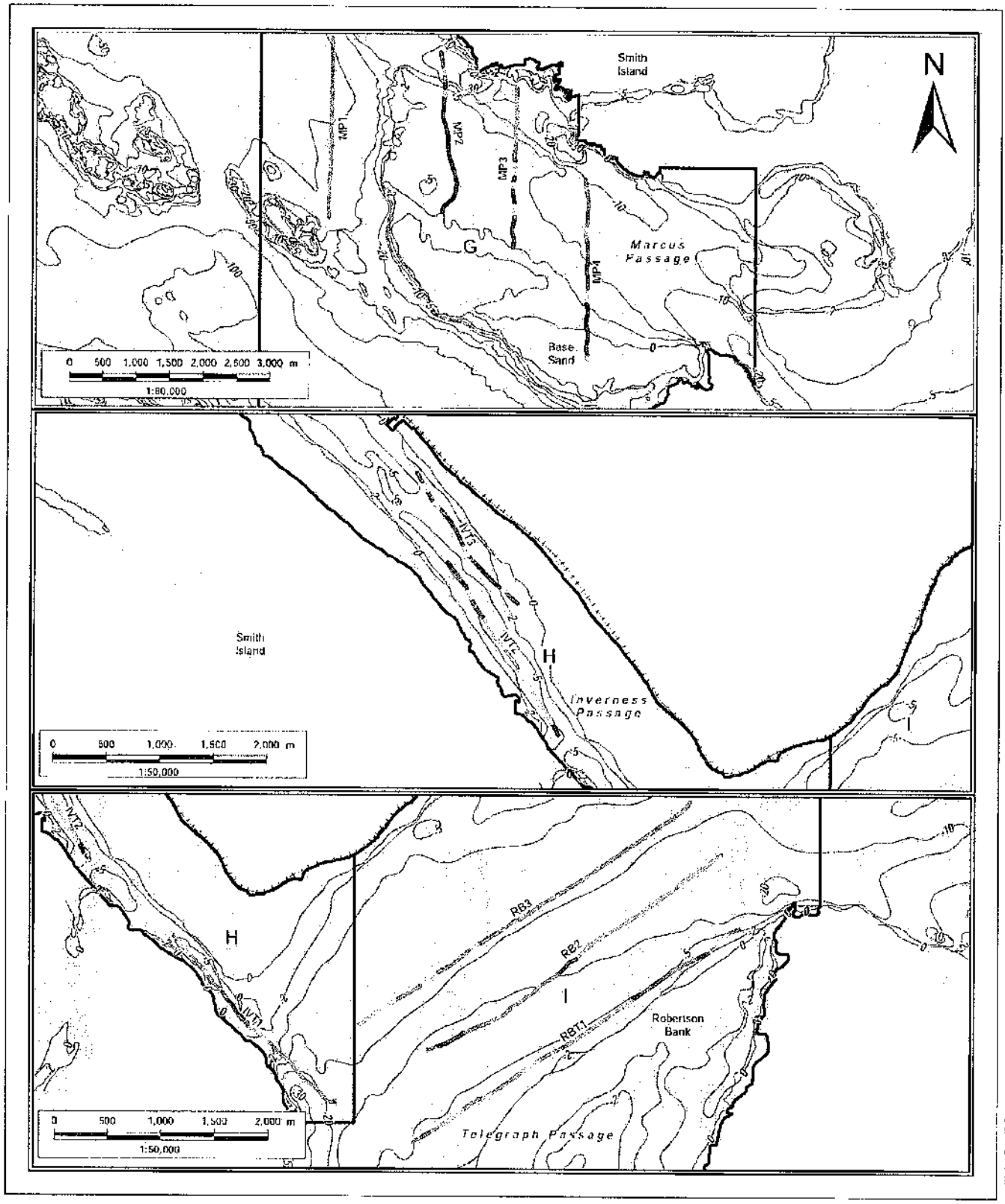
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-35



Acoustic Fish Density Estimates (Fish/ha)

- < 1
- 1 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I

Daytime Fish Hydroacoustic Survey 11

(Aug 12 - 19, 2015): Fish Density 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

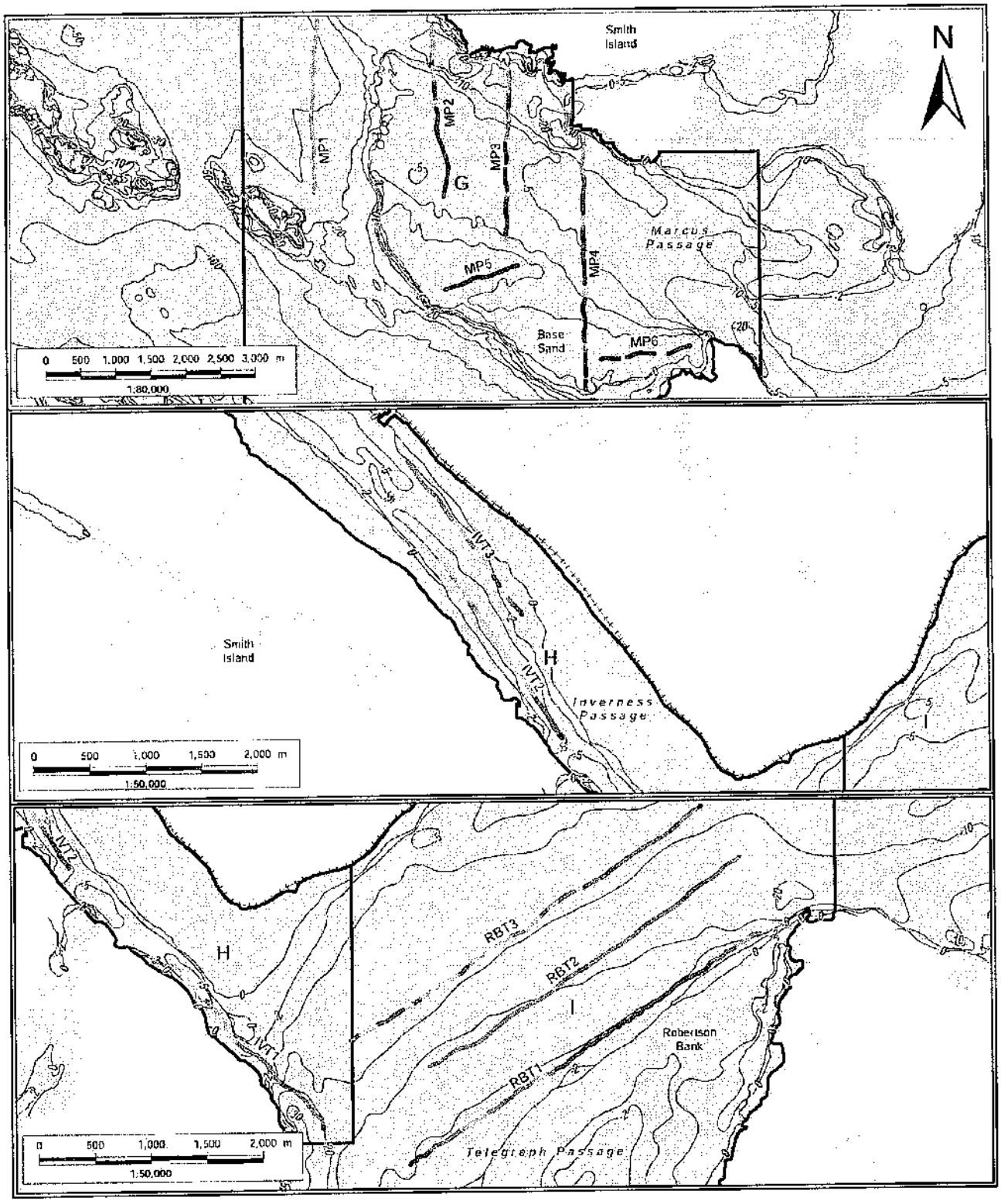
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: S. PARKER	CHECKED BY: R. CAMPBELL

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-36



Acoustic Fish Density Estimates (Fish/ha)

- < 1
- 1 - 100
- 100 - 500
- 500 - 1000
- 1000 - 10000
- > 10000
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I
Daytime Fish Hydroacoustic Survey 12
(Sep 14 - 19, 2015): Fish Density 100 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

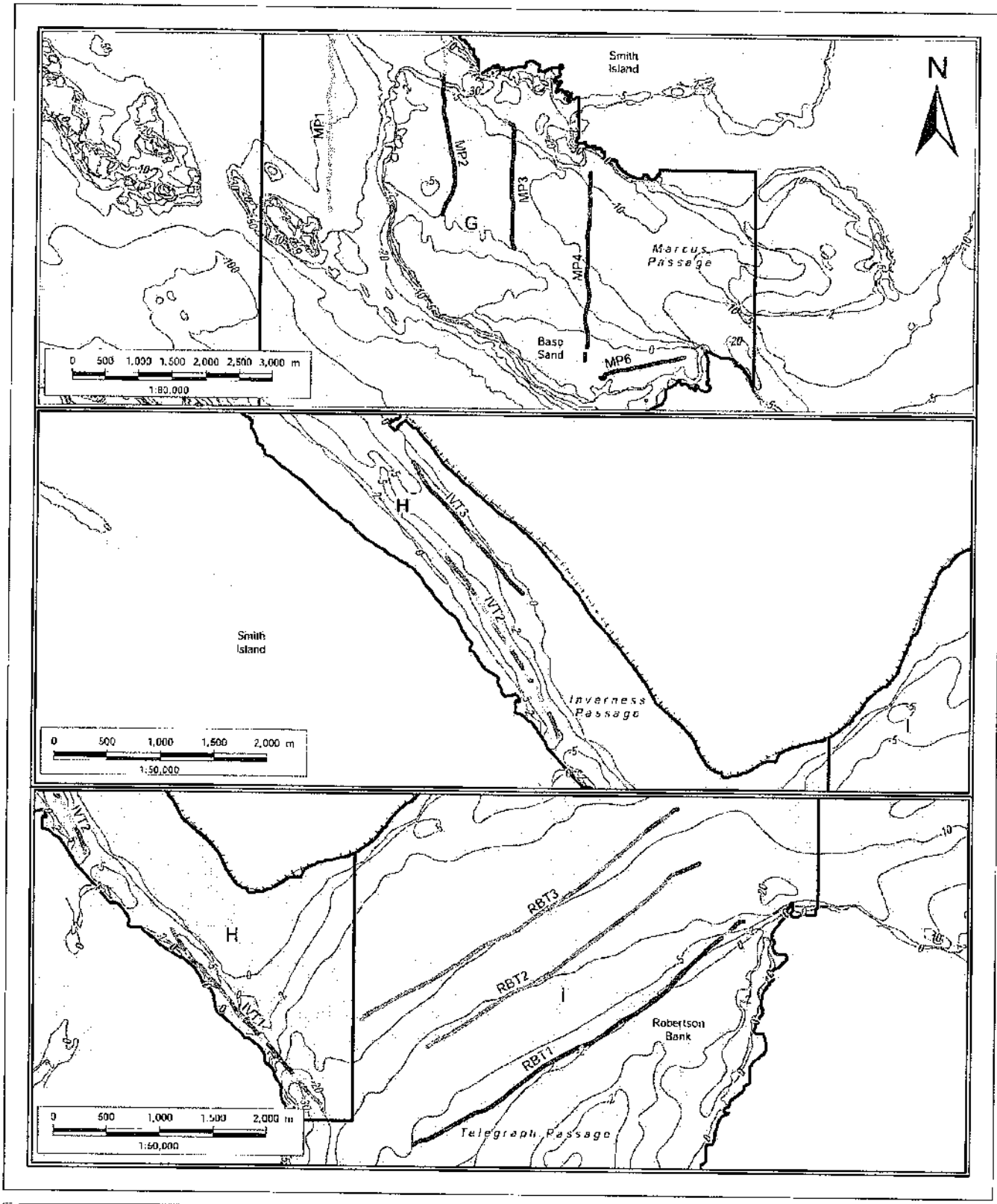
DATE: 20-APR-16
FIGURE ID: 123110637
DRAWN BY: R. CAMPBELL

PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-37



Acoustic Fish Density Estimates (Fish/ha)

- < 1
- 1 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000
- Substantial Plankton

- Depth Contour (m)
- Railway
- Watercourse
- Waterbody
- Intertidal Bank
- Survey Area

Pacific NorthWest LNG

Survey Areas G, H, I

Daytime Fish Hydroacoustic Survey 13

(Oct. 30 - Nov. 4, 2015): Fish Density 100 m Segmnt

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

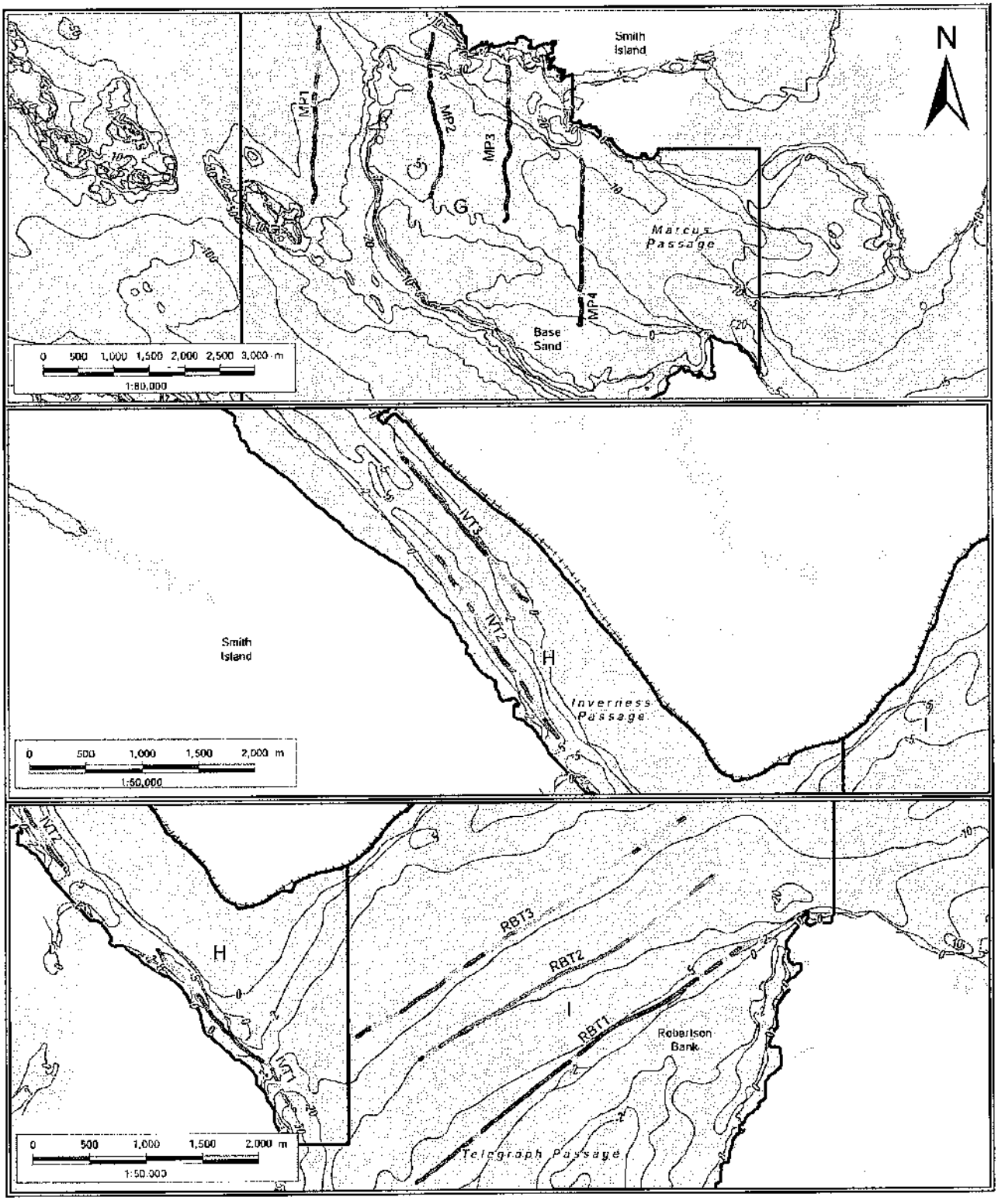
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: K. JAMES	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: F-38



Acoustic Fish Density Estimates (Fish/ha)

- < 1
- 1 - 100
- 100 - 500
- 500 - 1,000
- 1,000 - 10,000
- > 10,000
- Substantial Plankton

Depth Contour (m)
Survey Area
Railway
Watercourse
Waterbody
Intertidal Bank

Pacific NorthWest LNG
Survey Areas G, H, I
Daytime Fish Hydroacoustic Survey **14**
(Nov. 26 - Dec. 3, 2015): Fish Density 100 m Segmnt

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: K. JAMES
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: F-39



Mean Volume Backscatter (MVBS) (dB)
-80 and less
-75 to -80
-70 to -75
-65 to -70
-60 to -65
-55 to -60
-55 and greater
Substantial Plankton

Project Component
Bathymetry (m)
Major Contour
Minor Contour
Railway
Secondary Road
Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

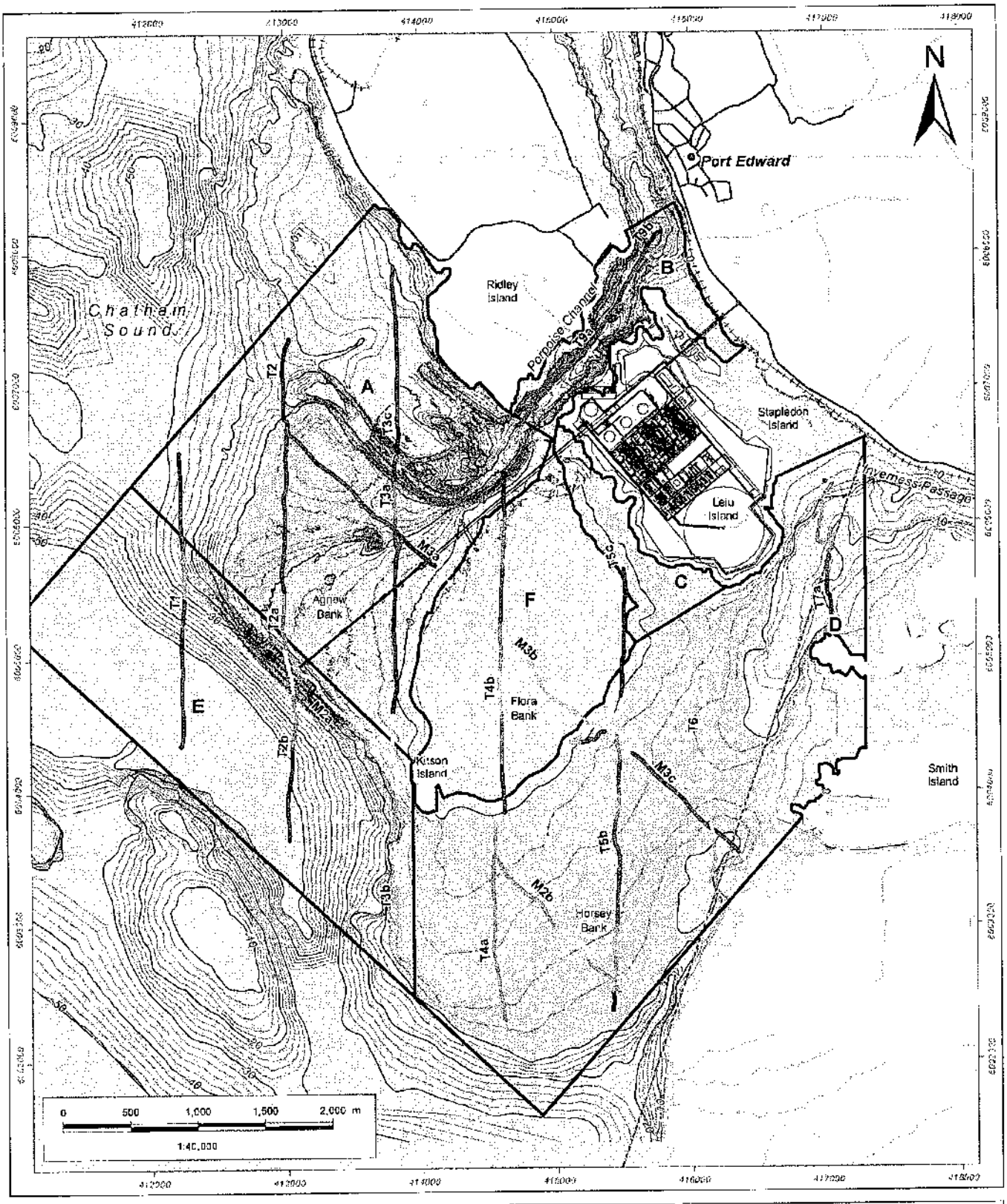
Pacific NorthWest LNG
Nighttime Fish Hydroacoustic Survey 1 (May 1 - 3, 2015): MVBS 500 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority, Government of Canada, Natural Resources Canada Centre for Topographic Information, Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-15
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO.
F-40



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Project Component

Bathymetry (m)

- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

Prince Rupert Port Authority Boundary

Survey Area

Waterbody

Intertidal Bank

0 - 5 m Shoal

5 - 10 m Shoal

Pacific NorthWest LNG

Nighttime Fish Hydroacoustic Survey 2 (May 12 - 14, 2015): MVBS 500 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information. Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO:

F-41



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

- Project Component

Bathymetry (m)

- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse

- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG

Nighttime Fish Hydroacoustic Survey 3 (May 25 - 29, 2015): MVBS 500 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE:	20-APR-16	PROJECTION:	UTM - ZONE 9
FIGURE ID:	23110537	DATUM:	NAD 83
DRAWN BY:	R. CAMPBELL	CHECKED BY:	S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO.

F-42



Mean Volume Backscatter (MVBS) (dB)
- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Bathymetry (m)
- Project Component
- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse
- Prince Rupert Port Authority Boundary
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG
Nighttime Fish Hydroacoustic Survey 4 (June 3 - 6, 2015): MVBS 500 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information. Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 125110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: **F-43**



Mean Volume Backscatter (MVBS) (dB)
-60 and less
-75 to -60
-70 to -75
-65 to -70
-60 to -65
-55 to -60
-55 and greater
Substantial Plankton

Project Component
Bathymetry (m)
Major Contour
Minor Contour
Railway
Secondary Road
Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

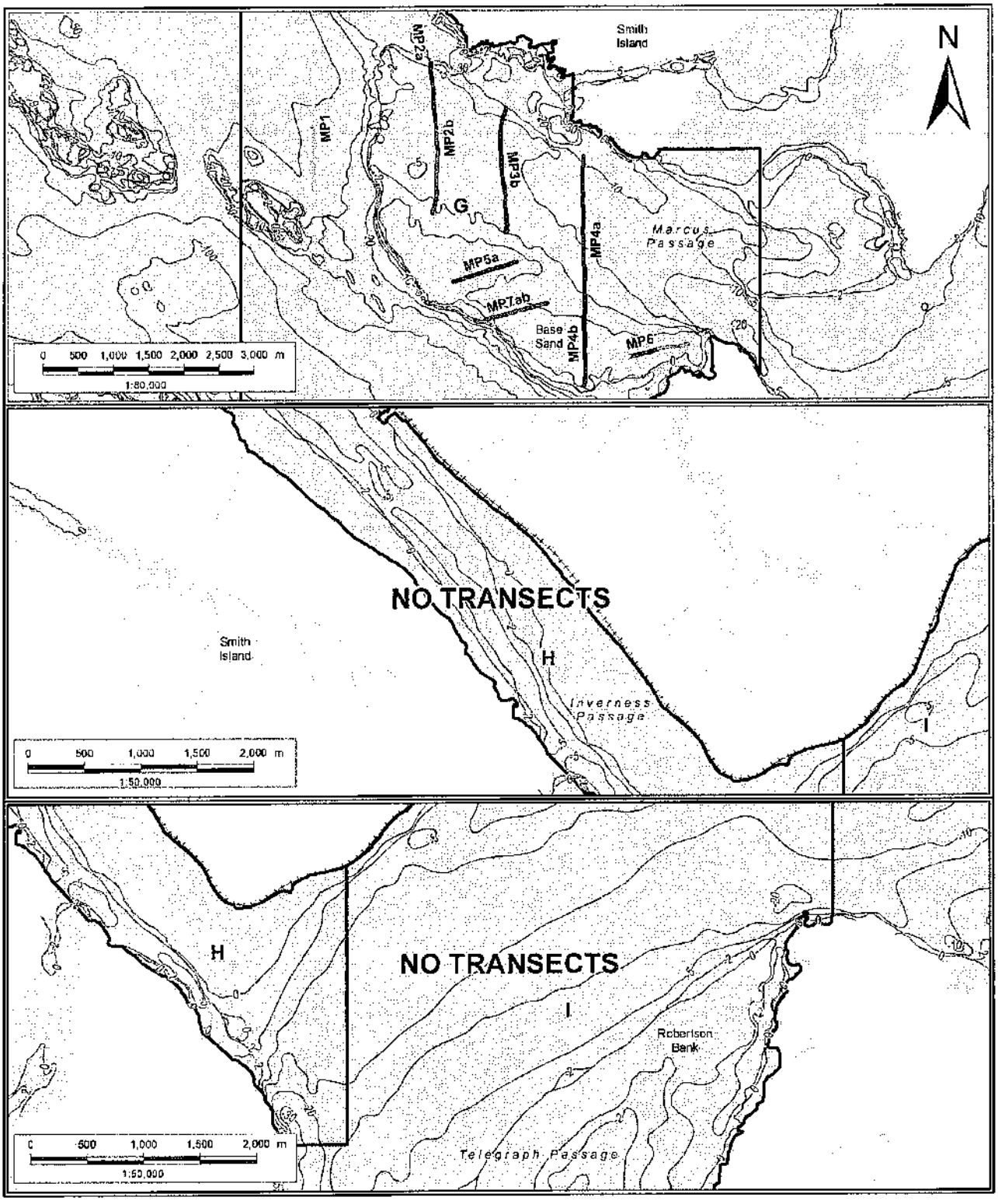
Pacific NorthWest LNG
Nighttime Fish Hydroacoustic Survey 7 (June 24 - 28, 2015): MVBS 500 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority, Government of Canada, Natural Resources Canada, Centre for Topographic Information, Progress Energy Canada Ltd

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO: **F-44**



Mean Volume Backscatter (MVBS) (dB)

- -60 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I
Nighttime Fish Hydroacoustic Survey 7
(June 29, 2015): MVBS 500 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information, Progress Energy Canada Ltd.

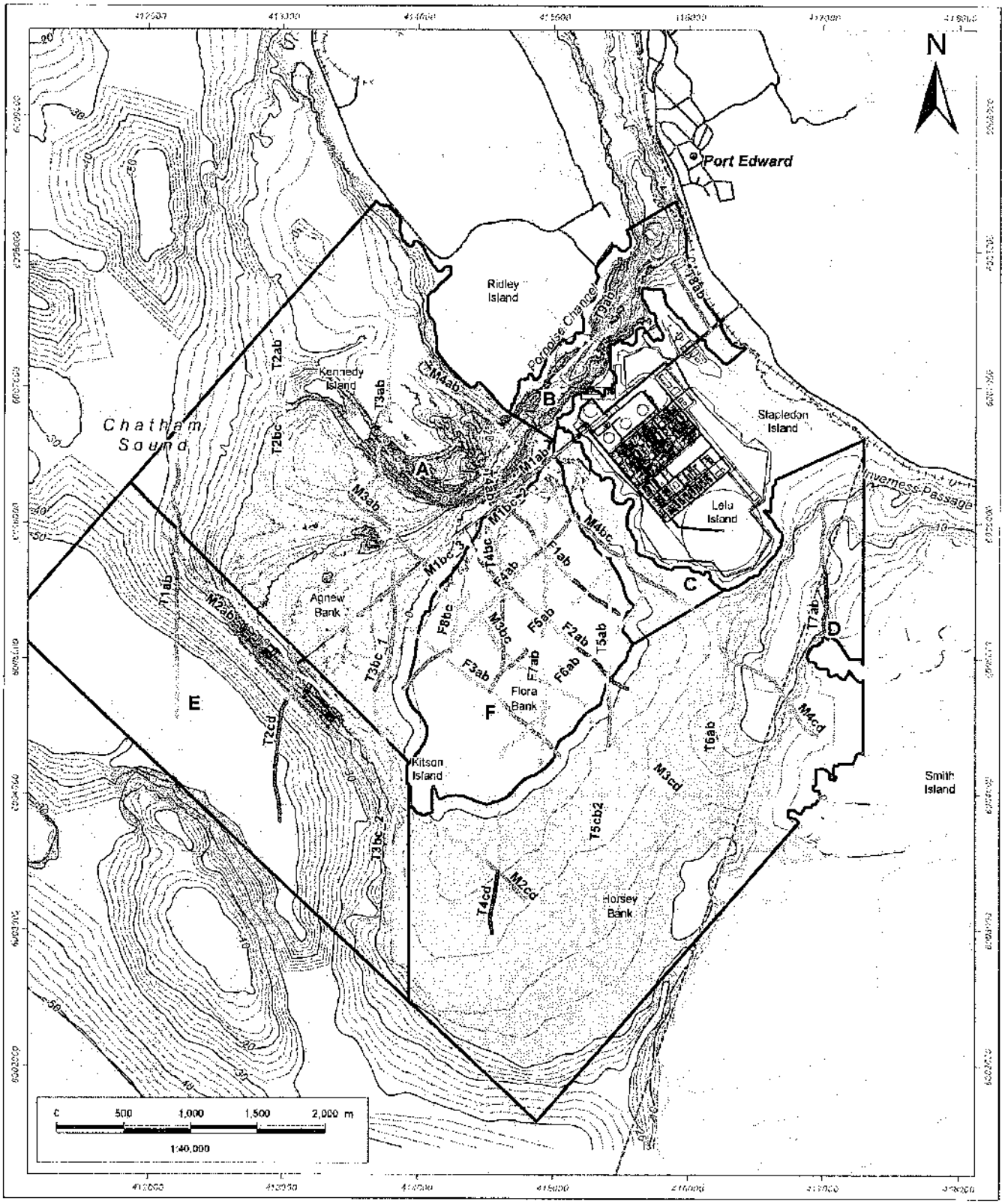
Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: **F-45**



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

- Project Component
- Prince Rupert Port Authority Boundary

Bathymetry (m)

- Major Contour
- Minor Contour
- Railway
- Secondary Road
- Watercourse
- Survey Area
- Waterbody
- Intertidal Bank
- 0 - 5 m Shoal
- 5 - 10 m Shoal

Pacific NorthWest LNG

Nighttime Fish Hydroacoustic Survey 8 (July 2 - 8, 2015): MVBS 500 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority, Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

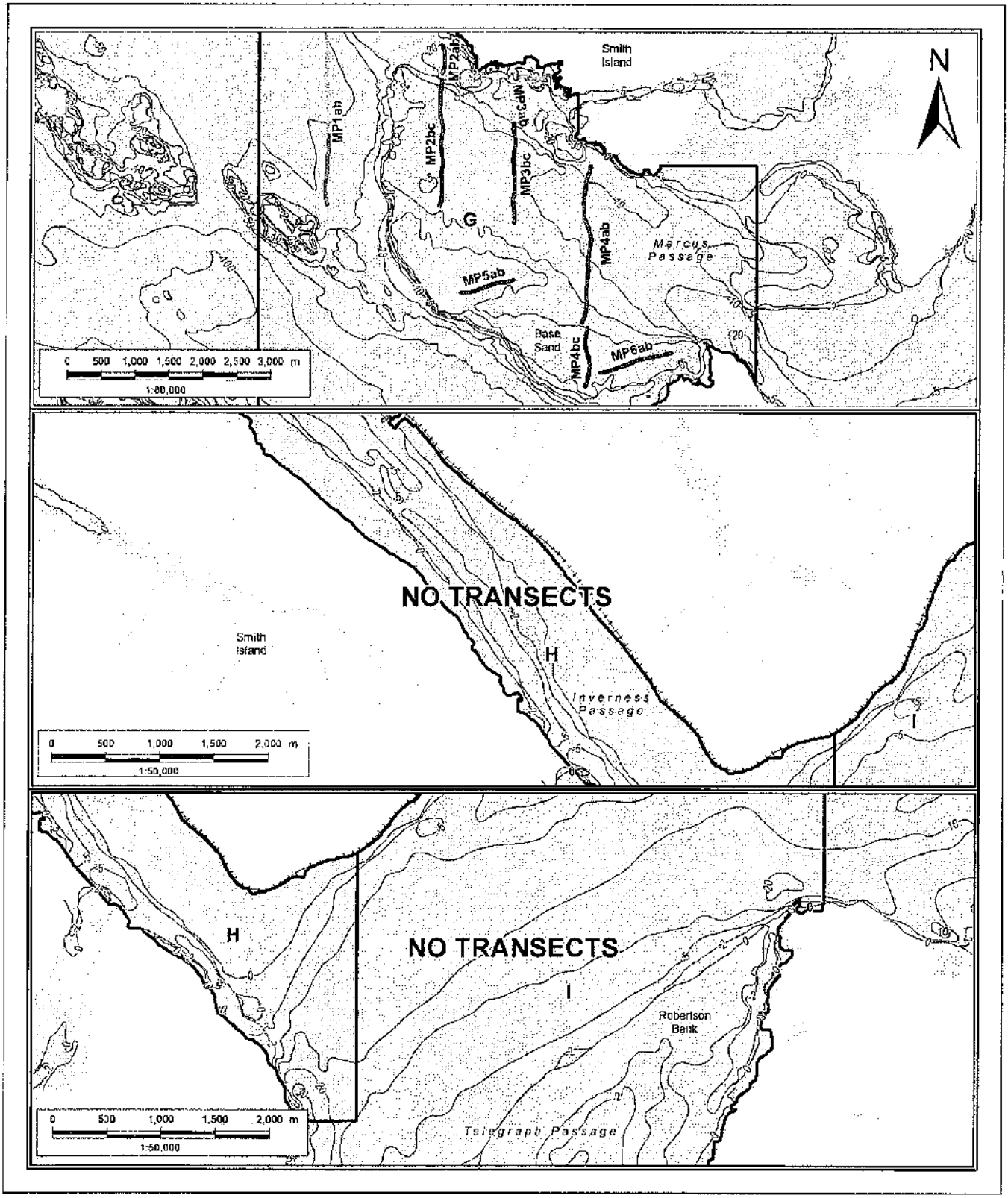
DATE: 20-APR-16	PROJECTION: UTM - ZONE 9
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO.

F-46



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)
Survey Area
Railway
Watercourse
Waterbody
Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I
Nighttime Fish Hydroacoustic Survey 8
(July 8-9, 2015): MVBS 500 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16	PROJECTION: UTM - ZONE 8
FIGURE ID: 123110537	DATUM: NAD 83
DRAWN BY: R. CAMPBELL	CHECKED BY: S. O'REGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO: **F-47**



Mean Volume Backscatter (MVBS) (dB)
-80 and less
-75 to -80
-70 to -75
-65 to -70
-60 to -65
-55 to -60
-55 and greater
Substantial Plankton

Project Component
Bathymetry (m)
Major Contour
Minor Contour
Railway
Secondary Road
Watercourse

Prince Rupert Port Authority Boundary
Survey Area
Waterbody
Intertidal Bank
0 - 5 m Shoal
5 - 10 m Shoal

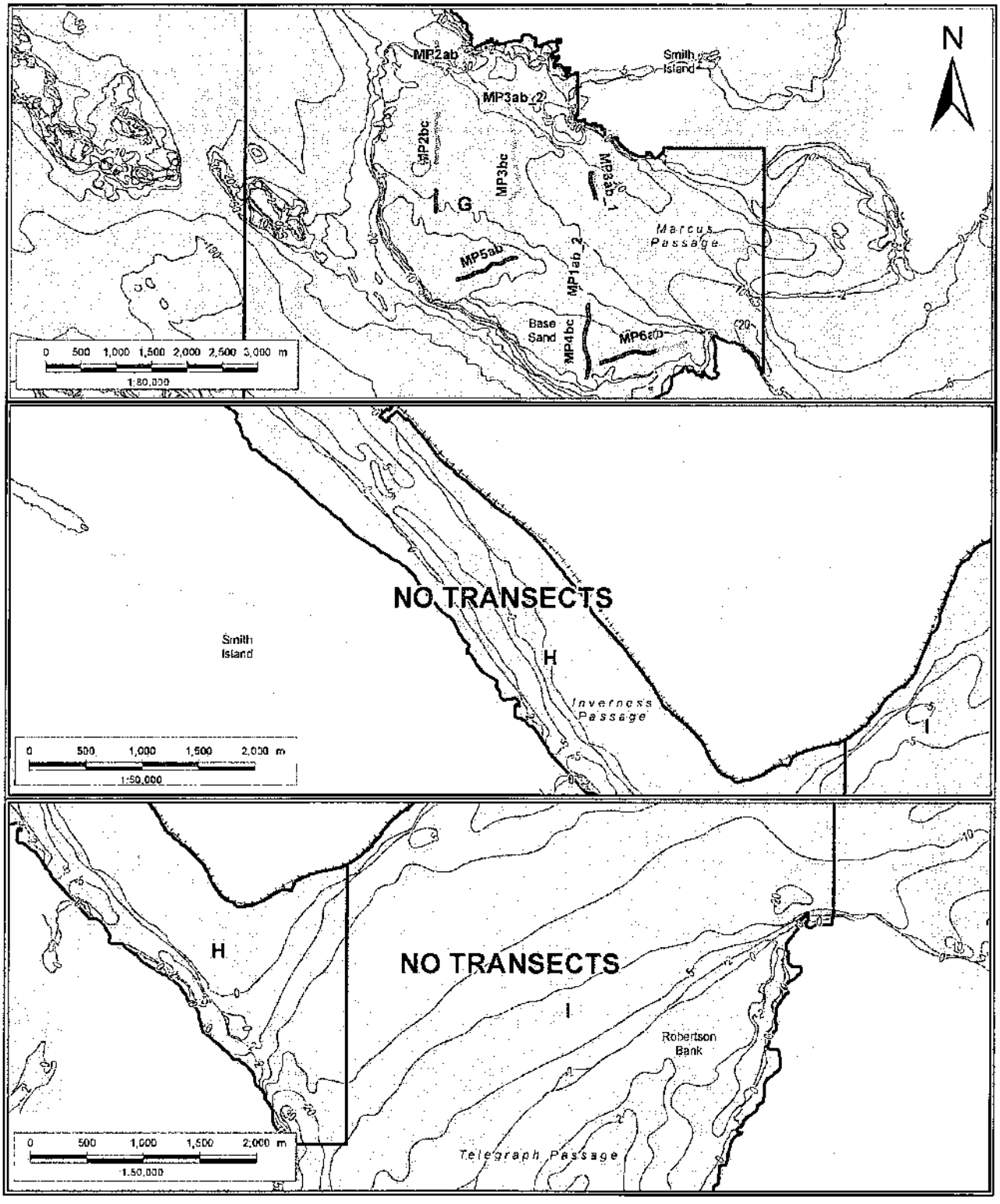
Pacific NorthWest LNG
Nighttime Fish Hydroacoustic Survey 9 (July 10 - 14, 2015): MVBS 500 m Segments
MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia; Prince Rupert Port Authority; Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL
PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. O'REGAN

PREPARED BY: Stantec
PREPARED FOR: Pacific NorthWest LNG
FIGURE NO.
F-48



Mean Volume Backscatter (MVBS) (dB)

- -80 and less
- -75 to -80
- -70 to -75
- -65 to -70
- -60 to -65
- -55 to -60
- -55 and greater
- Substantial Plankton

Depth Contour (m)

Survey Area

Railway

Watercourse

Waterbody

Intertidal Bank

Pacific NorthWest LNG

Survey Areas G, H, I
Nighttime Fish Hydroacoustic Survey 9
(July 15-16, 2015): MVBS 500 m Segments

MARINE FISH PROGRAM - FINAL REPORT

Sources: Government of British Columbia, Prince Rupert Port Authority, Government of Canada, Natural Resources Canada, Centre for Topographic Information; Progress Energy Canada Ltd.

Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

DATE: 20-APR-16
FIGURE ID: 123110537
DRAWN BY: R. CAMPBELL

PROJECTION: UTM - ZONE 9
DATUM: NAD 83
CHECKED BY: S. OREGAN

PREPARED BY: Stantec

PREPARED FOR: Pacific NorthWest LNG

FIGURE NO:

F-49

Loiacono, Sabrina EAO:EX

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 9:14 AM
To: Jardine, Kevin EAO:EX
Cc: Neilson, Kirsten EAO:EX; Perry, Monica EAO:EX; Grace, David H EAO:EX; Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject: EAO - draft presentation for RBT2 panel orientation session
Attachments: June 28 Draft PPT presentation.pptx

Good morning Kevin,

Please find attached the draft presentation for tomorrow's presentation to the RBT2 panel orientation session. It is based on the letter sent Friday, and incorporates suggestions from Monica Perry and Paul Craven.

This must be sent over to the panel by noon today – look forward to your comments as soon as you are available.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

EAO Environmental Assessment Office

EAO | Environmental Assessment Office

Roberts Bank Terminal 2 – Panel Orientation
BC Environmental Assessment Office (BCEAO)

June 28, 2016

Paul Craven, Executive Director, Policy and Quality Assurance



BCEAO - Mandate

- We assess proposed major projects for potentially significant adverse environmental, social, economic, health and heritage effects
- We seek to provide for meaningful participation by Aboriginal groups, proponent, the public, local governments, and federal and provincial agencies in our process
- We work with the Canadian Environmental Assessment Agency on project that trigger both provincial and federal environmental assessments (EAs)
- We oversee compliance and conduct enforcement for the life of the project

BCEAO – Key Legislation/Policy

- BC *Environmental Assessment Act* (Act) and regulations
- Extensive policy and guidelines that provide direction on provincial EAs:
  - http://www.eao.gov.bc.ca/guidance.html

BCEAO – Key Expertise

- Administration of the Act and regulations
- Coordination of interested parties in the EA
- Compliance and Enforcement activities

BCEAO – Key Relationships

- Advisory working group (technical expertise)
  - Federal, Provincial, Local government
  - First Nations
  - Other jurisdictions, where appropriate
- First Nations Consultation
  - Ministry of Aboriginal Relations and Reconciliation
  - Ministry of Forests, Lands and Natural Resource Operations
- Canadian Environmental Assessment Agency
  - Coordinated and Substituted EAs
- Linkage to forums outside the EA for issues resolution and mitigation
- Linkage to expertise in other areas internal or external to government

BCEAO – One Project, One Assessment

- Seek to reduce duplication of review efforts, increase efficiencies
- 2013 Substitution Memorandum of Understanding with the Canadian Environmental Assessment Agency
  - *two decisions (federal and provincial) where both federal and provincial EAs are required*
  - *one single review process (provincial)*
- Where substitution does not apply, working group review and other technical/administrative aspects are still coordinated between federal and provincial reviews

BCEAO – Assessment of RBT2

- Consistent with the principles of one project, one assessment.
- Section 14 Order: Ministerial Order sets out scope, procedures and methods for the provincial EA
  - *Rely principally on the federal review panel to obtain information (EA and First Nations consultation) needed to complete the provincial EA*
  - *May conduct additional assessment and consultation if required to inform a provincial decision*
- Panel Terms of Reference:
  - *Section 5: sets out relationship to provincial EA process*
  - *Section 2.3(b): factors of particular interest to province – "the potential economic, social, heritage and health effects of the project, including cumulative effects, that may not be encompassed by the definition of environmental effects under CEAA 2012"*

Questions

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 9:49 AM
To: Cadario, Michele PREM:EX; Carr, Steve PREM:EX; Dave.Nikolejsin@gov.bc.ca; Mentzelopoulos, Athana FIN:EX; Henderson, Kim N PREM:EX; Caul, Doug D ABR:EX; Sweeney, Neil PREM:EX
Subject: FW: Pacific NorthWest LNG Ltd.'s final response to March 18 information request

FYI...As mentioned this morning.

From: Smith,Jillian [CEAA] [mailto:Jillian.Smith@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 9:30 AM
To: Anna Usborne; Art Sterritt; Bill Shepert; Bruce Watkinson; Chris Picard ; Clifford White; David Taft, Kitselas; Don Roberts; Erin Mutrie; Harold Leighton; James Witzke; Joe Bevan; John Balogh; John Helin; Karisa Boult; Kitsumkalum Projects; Linda Simon, Admin for Lax Kw'alaams; s.22 ; Mark Ignas; nwallace@silverwoodconsulting.ca; Project Applications (Metlakatla); Rina Gemeinhardt; Ross Wilson; Sam Coggins; Siegi; Steve Roberts; Beavis, Katherine: TC; Carmel Lowe; Coulson, Jessica: NRCAN; Darren Chow; Doucette, Paula: TC; Jack Smith in Rupert ; Lewis,Scott [PYR]; Lorne Keller; Lucille Lukey; Magnan, Alain: DFO; Martin, Tanya LYNN: TC; Mercer, Janet: PCA; Mullins,Garth [PYR]; Parkinson, Colin R: TC; Renny Talbot DFO; Rifkin,June Yoo [PYR]; Robinson,Andrew [PYR]; Russo,Nick [PYR]; Setton, Eleanor; Webb, Cheryl; danielle.goulard@canada.ca
Cc: Walls,Lisa [CEAA]; Anderson,Candace [CEAA]; Devin,Sarah [CEAA]; Irwin,Kimberly [CEAA]; Poier,Lisa [CEAA]; Adams,Jill [CEAA]; Michael Lambert; Brian Clark
Subject: Pacific NorthWest LNG Ltd.'s final response to March 18 information request

Hello members of the Working Group for the Pacific NorthWest LNG Project,

The Canadian Environmental Assessment Agency has determined that the final response submitted by Pacific NorthWest LNG Ltd. on June 17, 2016 satisfies the March 18, 2016 information request. The final response will be posted to the Canadian Environmental Assessment Registry website <http://www.ceaa.gc.ca/050/details-eng.cfm?evaluation=80032>. The legislated timeline under CEAA 2012 resumed on June 27, 2016 at day 361. The three month extension that was granted by the Minister of Environment and Climate Change takes effect following day 365.

The Agency is now seeking updated advice from Indigenous groups, Fisheries and Oceans Canada, Natural Resources Canada and Health Canada. The Agency will send follow-up emails to these groups with specific questions to guide their reviews. Although the Agency is not formally seeking input from other federal authorities, any additional comments are welcome and will be considered.

We will also provide the Working Group with revised potential conditions, this week. The revisions will reflect our consideration of comments received during the public comment period, as well as the proponent's final response.

Regards,

Jillian Smith

Project Manager

Canadian Environmental Assessment Agency / Government of Canada
Agence canadienne d'évaluation environnementale / Gouvernement du Canada
Jillian.Smith@ceaa-acee.gc.ca / Tel: 613-948-1940

The information transmitted is intended only for the addressee and may contain confidential, proprietary and/or privileged material. Any unauthorized review, distribution or other use of or the taking of any action in reliance upon this information is prohibited. If you received this in error, please contact the sender and delete or destroy this message and any copies.

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 9:50 AM
To: Haines, Kate EAO:EX
Cc: Neilson, Kirsten EAO:EX; Perry, Monica EAO:EX; Grace, David H EAO:EX; Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject: RE: EAO - draft presentation for RBT2 panel orientation session

Excellent. This looks great, thx, Kate.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 9:14 AM
To: Jardine, Kevin EAO:EX
Cc: Neilson, Kirsten EAO:EX; Perry, Monica EAO:EX; Grace, David H EAO:EX; Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
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Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

EAO Environmental Assessment Office

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 10:14 AM
To: Jardine, Kevin EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: Harbour Air notice

Importance: High

Kevin,

I received an email from Harbour Air asking passengers flying out of Victoria to arrive earlier for check-in due to dock maintenance at the terminal. Your flight details are below:

Tuesday, June 28, 2016
Flight #2060
09:20 Victoria Harbour

Kind regards,
S.

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 11:01 AM
To: 'Doug Konkin' (s.22); Mayhew, Neilane ABR:EX
Cc: Wheler, Francesca M ABR:EX; Murphy, Shelley EAO:EX
Subject: TNG-Taseko Responses
Attachments: 2016 06 10 JP Laplante to EAO re Prosperity Amendment Final.pdf; 95255 Hallbauer to Premier May 13, 2016 - New Prosperity.pdf; Response_13May2016 Taseko letter_23June2016_FINAL.docx; TNG_24June2016_Response_FINAL.doc

Please find attached both the incoming and draft response correspondence in anticipation of our 12:30 call.

Best rgds,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

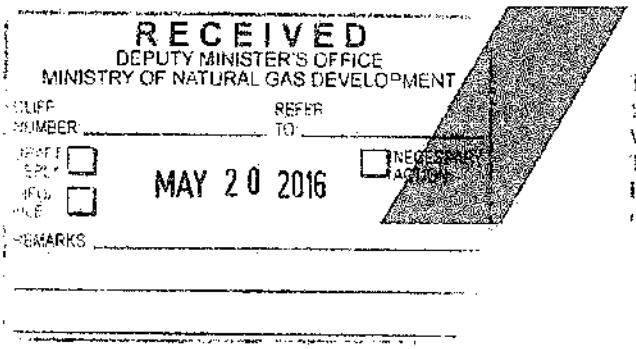
EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Page 1288 to/à Page 1295

Withheld pursuant to/removed as

DUPLICATE



Taseko Mines Limited
15th Floor, 1040 West Georgia St
Vancouver, BC V6E 4H1
T +1 778 373 4533
F +1 778 373 4534
tasekomines.com

May 13, 2016

WITHOUT PREJUDICE

The Honourable Christy Clark
Premier of British Columbia
Box 9041
Station Prov. Govt.
Victoria, BC V8W 9E1

95255

Dear Premier Clark:

As you undoubtedly are aware my Company continues with its efforts to advance our New Prosperity Project and we are actively pursuing the matter through the Courts, with the goal of requiring the Federal Government to revisit the position it took under the Canadian Environmental Assessment Act, 2012 in not granting three authorizations to advance the project tied to fish habitat, navigable waters and explosives.

I firmly believe that the courts will find in our favour once the true facts of the Federal process are unveiled.

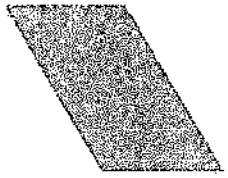
I have personally been involved in mineral development around the world and have experienced subversive undermining by government employees of important projects. I cannot believe, as a Canadian that the same could hold true in Canada in terms of what transpired through the Federal Panel Process as it relates to our New Prosperity Project.

It indeed though happens, everyone in this Province should remember Carrier Lumber, one of the more egregious efforts of the state and bureaucracy to destroy a business.

To bring you up-to-date on our findings, Federal elected representatives and senior deputy ministers met secretly with opponents of our Project, these opponents were not just First Nations representatives, but private citizens and NGO groups who had many meetings, after the Panel hearings had closed. As well, a 56 page submission in opposition to our Project was presented to the then Environmental Minister "after the Panel Report had been rendered" – all of which was not part of the process nor disclosed to my Company, and we were never given an opportunity to respond to it before Cabinet made its decision. All of this is contrary to the Federal decision-making process and likely contrary to law.

The British Columbian government should be very disturbed by this because constitutionally mineral assets are owned by the Province and their development is the Provinces' responsibility, not Ottawa's. With the BC government approving our Project and the Federal government torpedoing it by not following their own process is something that needs to be addressed by your administration.

[illegible] Russell Hallbauer, [illegible]



We have recently though obtained through access to information requests, information regarding a submission from British Columbia Ministry of Energy and Mines personnel made to the Federal Review Panel – this submission downplayed a variety of supportive technical information from the BC Government's own consultants on water quality that, had these reports been presented to the Panel on behalf of the BC Government could have potentially affected the Panel's ultimate conclusions.

In a nutshell, Premier, BC Government employees were actively working to discredit our new plan with the Panel on the water quality issue around Fish Lake.

Even knowing all of this we have continued our efforts to move forward through the provincial regulatory processes, but have experienced intense resistance and delays from the British Columbia Environmental Assessment Office (EAO) which begs the question "why". As you know, our original Prosperity project was approved by two provincial ministers in 2010, and we applied to amend our environmental assessment certificate in June 2011 to reflect the modified New Prosperity design (which would avoid the draining of Fish Lake). It is incomprehensible to us that a decision on the amendment application remains outstanding nearly 5 years after it was filed. This is in fact an extremely simple amendment application to grant, given that the revised project will have less environmental impact and more economic benefits. Yet despite all the above, and various letters sent to EAO, the EAO continues to sit on its hands on this project, perhaps in the hope that Taseko will simply go away.

I must, however, assure you that is not going to happen.

My concern about the maladministration by the EAO has been heightened in recent months, with the signing of the Nenqay Deni Accord - without any prior consultation with our Company and I might add many other land owners and citizens of the Cariboo. This Accord makes clear that all lands within the Tsilhqot'in traditional territory (other than the title lands and Indian reserves) will either become category A lands or category B lands. Under the terms of the agreement, either categorization of our project will have material adverse impacts on our project and our economic interests. In June 2011 I sent both yourself and Minister Coleman then Minister of EMPR a letter regarding the Tsilhqot'n Framework Agreement and how we viewed such with respect to our project. Nearly 5 years later the situation continues to deteriorate.

In the circumstances where we find ourselves there are several possible scenarios as to how I would see the matter proceeding:

OPTION1. The province:

(a) proceeds with the timely completion of the Environmental Assessment Certificate amendment application;

(b) provides written notice to our Company and the TNG that the lands over which our mineral tenures exist will not be on the table for negotiation as category A lands; and

(c) commits to compensating our Company for any additional costs or adverse implications that arise in future as a result of any changes to the resource management regulatory regime and land use planning that will be applied to category B lands.



OPTION 2: The province immediately enters into negotiations with our Company to sell our existing tenures, permits and engineering reports to a private company owned by the province, and the province could in turn transfer ownership of that company to the TNG or any other party it deems appropriate. In order to achieve such an agreement, our Company would expect to be compensated for its substantial investment to date in the project, and be provided a significant Net Smelter Royalty in the event the deposit is ever mined by any other party, including any First Nation group.

OPTION 3: Taseko initiates legal proceedings against the province. This could include an application for an order in the nature of mandamus, directing the EAO / Minister of Environment to complete the certificate amendment application. Or we could include a civil suit for damages based upon a claim of *de facto* expropriation, among other things.

Premier – I hope it is clear that this Company and its shareholders cannot simply sit back and allow our project to be placed on ice by regulators, or to be unfairly treated by agreements with First Nations that affect our interests without any consultation with us. We would, of course, like nothing more than to find a way to develop this project that is in the mutual interests of ourselves, the citizens of the Cariboo, and the Tsilhqot'in and we will continue to work towards that goal. But please understand that in the absence of any such agreement we are not able to simply stand down and watch this substantial asset become sterilized to the detriment of our shareholders.

It is doubly disturbing to myself and my Board of Directors that there exists such a double standard with respect to Government projects, ie Site C and the interaction with aboriginal interests versus public companies trying to develop their assets in terms of "veto", contrary to the Supreme Court decisions on these matters. There have been seven First Nations groups taking the Government to court on Site C and you have won all challenges, yet our Project stands isolated against a perceived backdrop of First Nation pushback.

I am prepared to meet with the appropriate spokesperson you assign to this in the coming weeks to discuss these options for the government.

Sincerely,

Russell E. Hallbauer, P.Eng.
President & CEO

cc. Honourable Bill Bennett, Minister of Energy and Mines
Honourable Mary Polak, Minister of Environment
Honourable John Rustad, Minister of Aboriginal Relations and Reconciliation
Donna Barnett, MLA
Kim Henderson, Deputy Minister to the Premier
Elaine McKnight, Deputy Minister
Doug Caul, Deputy Minister
Kevin Jardine, Associate Deputy Minister

Page 1299 to/à Page 1308

Withheld pursuant to/removed as

s.13

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 11:06 AM
To: Jardine, Kevin EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: Daily Call

Hi Kevin,

s.22 did you want Michelle to take your daily conference call?

S.

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 11:13 AM
To: Jardine, Kevin EAO:EX
Cc: Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
Subject: FW: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today
Attachments: IN_EAO_Prosperity_CertificateExtensionDecision_24June2016.docx

Hi Kevin,

Just following up with you on this approval as I did not see a response from you on Friday.

Kind regards,
S.

From: Vinette, Nicole EAO:EX
Sent: Friday, June 24, 2016 3:19 PM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: FW: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today

Hi Kevin,

In preparation for the upcoming two-year anniversary of the Tsilqhot'in court decision on Sunday, MARR has requested a copy of our Prosperity IN, which I've been working with Shelley to update (Paul and Michelle have also reviewed). The revisions have been made in tracked changes so you can more easily review the updated portions. MARR is very keen to get the revised IN today, if possible.

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_24June2016.docx

If you have any requested edits, please let me know and I'll be happy to make them. Thanks.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

Page 1311 to/à Page 1313

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 11:19 AM
To: Loiacono, Sabrina EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: RE: Daily Call

I'll confirm, but I don't believe that there are any substitutes allowed on the calls. Moreover, given that Michelle's hasn't yet been involved in the ongoing discussions, I'm not sure she'll have anything to add.

So, unless I advise otherwise sometime this week, no. She need not attend the 7:30 calls.

Thx,
K.

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 11:06 AM
To: Jardine, Kevin EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: Daily Call

Hi Kevin,

s.22 did you want Michelle to take your daily conference call?

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Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

EAO | Environmental Assessment Office

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Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 11:28 AM
To: Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX
Cc: Craven, Paul EAO:EX; Bohn, Dominique EAO:EX; Carter, Rumon EAO:EX; Fenton, Chrystal EAO:EX; Rennert-May, Leya EAO:EX
Subject: RE: Clean Energy BC

Clean Energy BC was invited to participate in an EPIC briefing that was set up with IAIA and their affiliates. They have opted to participate in the joint briefing instead of having a standalone briefing. I will take the hold out of your calendars. Please let me know if you have any questions.

Kind regards,
S.

From: Jardine, Kevin EAO:EX
Sent: Thursday, June 23, 2016 12:24 PM
To: Carr, Michelle EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Bohn, Dominique EAO:EX; Carter, Rumon EAO:EX; Fenton, Chrystal EAO:EX; Rennert-May, Leya EAO:EX
Subject: Re: Clean Energy BC

Good idea...

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 23, 2016, at 10:50 AM, Carr, Michelle EAO:EX <Michelle.Carr@gov.bc.ca> wrote:

> Monica should attend with me.
>
> **Michelle Carr** | Assistant Deputy Minister
> Environmental Assessment Operations, Environmental Assessment Office
> Phone: 250-387-2307
>
> <image002.jpg>
>
> ---
>
> **From:** Loiacono, Sabrina EAO:EX
> **Sent:** Thursday, June 23, 2016 10:49 AM
> **To:** Jardine, Kevin EAO:EX; Carr, Michelle EAO:EX; Craven, Paul EAO:EX; Bohn, Dominique EAO:EX; Carter, Rumon EAO:EX
> **Cc:** Fenton, Chrystal EAO:EX; Rennert-May, Leya EAO:EX
> **Subject:** Clean Energy BC

Just a heads up that Clean Energy BC has confirmed that they would like a briefing on EPIC. They have indicated that July 14th at 10-11:30am works on their end. I have put a hold in both Rumon and Michelle's calendar. Please let me know if you would like anyone else to attend.

S.

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

<image003.jpg>
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Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 11:38 AM
To: Loiacono, Sabrina EAO:EX
Cc: Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
Subject: RE: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today

Thanks, Sabrina. Sorry I missed this. Approved.

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 11:13 AM
To: Jardine, Kevin EAO:EX
Cc: Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
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Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
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\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_24June2016.docx

If you have any requested edits, please let me know and I'll be happy to make them. Thanks.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

Loiacono, Sabrina EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Monday, June 27, 2016 11:43 AM
To: Jardine, Kevin EAO:EX
Subject: RE: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today

Great, thanks Kevin.

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 11:38 AM
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Cc: Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
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To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: FW: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today

Hi Kevin,

In preparation for the upcoming two-year anniversary of the Tsilqhot'in court decision on Sunday, MARR has requested a copy of our Prosperity IN, which I've been working with Shelley to update (Paul and Michelle have also reviewed). The revisions have been made in tracked changes so you can more easily review the updated portions. MARR is very keen to get the revised IN today, if possible.

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If you have any requested edits, please let me know and I'll be happy to make them. Thanks.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO Environmental Assessment Office

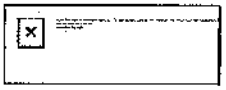
Loiacono, Sabrina EAO:EX

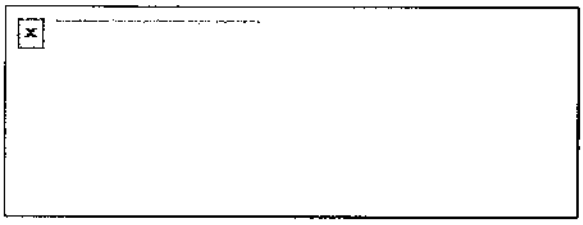
From: McCarthy Tétrault LLP / S.E.N.C.R.L., s.r.l. <listmanager@mccarthy.ca>
Sent: Monday, June 27, 2016 11:49 AM
To: Jardine, Kevin EAO:EX
Subject: The United Kingdom's Vote to Leave the European Union: A Legal Perspective on Next Steps

[illegible] click here to view it in a web browser

Published by the Business Law Group







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Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 11:51 AM
To: Vinette, Nicole EAO:EX
Subject: Re: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today

Again, sorry I missed it first time around. Never hesitate to send me a reminder ;-)

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 27, 2016, at 11:42 AM, Vinette, Nicole EAO:EX <Nicole.Vinette@gov.bc.ca> wrote:

> Great, thanks Kevin.
>
> Nicole Vinette
> Manager of Communications & Stakeholder Engagement
> Environmental Assessment Office
>
> 250-356-5311
> Nicole.Vinette@gov.bc.ca
> <image002.jpg>
>
> ---
> **From:** Jardine, Kevin EAO:EX
> **Sent:** Monday, June 27, 2016 11:38 AM
> **To:** Loiacono, Sabrina EAO:EX
> **Cc:** Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
> **Subject:** RE: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today
>
> Thanks, Sabrina. Sorry I missed this. Approved.
>
> ---
> **From:** Loiacono, Sabrina EAO:EX
> **Sent:** Monday, June 27, 2016 11:13 AM
> **To:** Jardine, Kevin EAO:EX
> **Cc:** Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
> **Subject:** FW: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today
>
> Hi Kevin,
>
> Just following up with you on this approval as I did not see a response from you on Friday.
>
> Kind regards,
> S.

From: Vinette, Nicole EAO:EX
Sent: Friday, June 24, 2016 3:19 PM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: FW: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today

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\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_24June2016.docx

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Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca
<image003.jpg>

Loiacono, Sabrina EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Monday, June 27, 2016 11:52 AM
To: Jardine, Kevin EAO:EX
Subject: RE: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today

Perfect, will do. Thanks Kevin.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 11:51 AM
To: Vinette, Nicole EAO:EX
Subject: Re: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today

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> Nicole Vinette
> Manager of Communications & Stakeholder Engagement
> Environmental Assessment Office
>
> 250-356-5311
> Nicole.Vinette@gov.bc.ca
> <image002.jpg>

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Subject: RE: Review Request: New Prosperity - Revised IN for MARR - Requested by End of Day Today

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Sent: Friday, June 24, 2016 3:19 PM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
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Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca
<image003.jpg>

Loiacono, Sabrina EAO:EX

From: Puggioni, Giovanni ABR:EX
Sent: Monday, June 27, 2016 12:16 PM
To: Kittleson, Christian ABR:EX; Shepard, Michael EAO:EX; Jardine, Kevin EAO:EX
Subject: Musqueam - Tsleil Waututh

Christian and I met with the two First Nations this morning. One item they raised was the letters they sent regarding the project suspension.
s.16

Can offer a few more details verbally if needed - just still in Vancouver and in transit to other meetings.

s.16

t

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 12:18 PM
To: Puggioni, Giovanni ABR:EX; Kittleson, Christian ABR:EX; Shepard, Michael EAO:EX
Subject: RE: Musqueam - Tsleil Waututh

Thanks, Gio, for the heads up. Mike is actively working this file – Eagle Mtn, I presume – with TWN, particularly, and may give you a call to follow-up.

K.

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Page 1329 to/à Page 1361

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Murphy, Shelley EAO:EX
Sent: Monday, June 27, 2016 1:05 PM
To: Jardine, Kevin EAO:EX
Subject: RE: TNG-Taseko Responses

Hi Kevin. Did the call the moved? I thought it was 1:30?

Sent from my Windows Phone

From: Jardine, Kevin EAO:EX
Sent: 2016-06-27 11:00 AM
To: 'Doug Konkin' (dougwkonkin@gmail.com); Mayhew, Neilane ABR:EX
Cc: Wheler, Francesca M ABR:EX; Murphy, Shelley EAO:EX
Subject: TNG-Taseko Responses

Please find attached both the incoming and draft response correspondence in anticipation of our 12:30 call.

Best rgds,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 1:07 PM
To: "Doug Konkin' (dougwkonkin@gmail.com)'; Mayhew, Neilane ABR:EX
Cc: Wheler, Francesca M ABR:EX; Murphy, Shelley EAO:EX
Subject: RE: TNG-Taseko Responses

That's 1:30, of course.

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 11:01 AM
To: 'Doug Konkin' (dougwkonkin@gmail.com); Mayhew, Neilane ABR:EX
Cc: Wheler, Francesca M ABR:EX; Murphy, Shelley EAO:EX
Subject: TNG-Taseko Responses

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Environmental Assessment Office
Ministry of Environment
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Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 1:22 PM
To: Craven, Paul EAO:EX
Cc: Jardine, Kevin EAO:EX; Vinette, Nicole EAO:EX
Subject: RE: FYI: Updated IN Roberts_Bank_Terminal Federal Panel

This has been uploaded.

Kind regards,
S.

From: Kapac de Frias, Martina E ENV:EX
Sent: Monday, June 27, 2016 1:03 PM
To: Craven, Paul EAO:EX; Knudsen, Mark ENV:EX
Cc: Jardine, Kevin EAO:EX; Loiacono, Sabrina EAO:EX; Vinette, Nicole EAO:EX
Subject: RE: FYI: Updated IN Roberts_Bank_Terminal Federal Panel

Thanks Paul

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 12:44 PM
To: Kapac de Frias, Martina E ENV:EX; Knudsen, Mark ENV:EX
Cc: Jardine, Kevin EAO:EX; Loiacono, Sabrina EAO:EX; Vinette, Nicole EAO:EX; Craven, Paul EAO:EX
Subject: FYI: Updated IN Roberts_Bank_Terminal Federal Panel

Hi Martina/Mark,

Attached is an updated IN updating the work of the federal panel and the Province's participation in an orientation session tomorrow in Vancouver. EAO is co-ordinating participation by the Province and the Province is participating in the federal review to ensure that provincial interests are considered.

Sabrina, would you kindly update the sharepoint site, please.

Loiacono, Sabrina EAO:EX

From: Puggioni, Giovanni ABR:EX
Sent: Monday, June 27, 2016 1:29 PM
To: Jardine, Kevin EAO:EX; Kittleson, Christian ABR:EX; Shepard, Michael EAO:EX
Subject: Re: Musqueam - Tsleil Waututh

Thanks Kevin. We connected and talked.
s.16

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 12:18 PM
To: Puggioni, Giovanni ABR:EX; Kittleson, Christian ABR:EX; Shepard, Michael EAO:EX
Subject: RE: Musqueam - Tsleil Waututh

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Sent: Monday, June 27, 2016 12:16 PM
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Page 1366 to/à Page 1369

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 1:30 PM
To: Puggioni, Giovanni ABR:EX; Kittleson, Christian ABR:EX; Shepard, Michael EAO:EX
Cc: Craven, Paul EAO:EX
Subject: RE: Musqueam - Tsleil Waututh

Agreed.

From: Puggioni, Giovanni ABR:EX
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Sent: Monday, June 27, 2016 12:16 PM
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s.16

Loiacono, Sabrina EAO:EX

From: Waters, Cory EAO:EX
Sent: Monday, June 27, 2016 1:32 PM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: FW: BKW BN
Attachments: 20160627 BKW BN EA Update_Final.docx

Importance: High

Kevin, Tavis has forwarded the attached BN for MEM relating to Blackwater, in prep for the potential meeting with CSFNs this week.

I flagged some wording in the attached which Tavis is looping back to MEM, but want to run this by you as well concurrently please.

C.

From: McDonald, Tavis EAO:EX
Sent: Monday, June 27, 2016 1:21 PM
To: Waters, Cory EAO:EX
Subject: FW: BKW BN
Importance: High

Sorry, forgot you were acting for Michelle. If haven't already would be good to run this past Kevin to ensure he's good with the wording.
T

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871

EAO | Environmental Assessment Office

From: McDonald, Tavis EAO:EX
Sent: Monday, June 27, 2016 1:17 PM
To: Smyth, Danielle MEM:EX
Cc: McNaughton, Steve EAO:EX; Murphy, Shelley EAO:EX
Subject: RE: BKW BN

A good note Danielle, thanks for forwarding. We're off on the below statement though. The clock has continued to run since EAO learned of New Gold's revised model on April 5th. As well, we haven't been able to address other areas of the referral report as we're still in issue resolution phase (new gold responses to comments raised by WG in June 9th). This is all time we would be working on developing the technical report. Minimum time estimate to address the outstanding issues and concerns and develop the technical chapters for review by the wg is 90 days, and this is assuming that what comes in is clean and minimal concerns.
T

"EAO staff have indicated that New Gold's desired approach to suspension is not feasible for the following reasons:

- 60 days is insufficient as EAO estimates requiring a minimum of 63 days for review and issue resolution following receipt of the revised WQ submission and effects assessment on July 25; and
- A suspension on day 195 of the 222-day review period will leave EAO with 27 days to draft its technical assessment report and referral package however, EAO requires approximately 65 days."

The clo

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871

EAO | Environmental Assessment Office

From: Smyth, Danielle MEM:EX
Sent: Monday, June 27, 2016 12:31 PM
To: McDonald, Tavis EAO:EX
Subject: BKW BN

Hi Tavis,

FYI.. here is the note I landed with. I have incorporated the bullets from your email about Kevin meeting with NG and added some timing from your workplan.

Danielle Smyth BSc MNRES
Regional Project Director, Major Mine Permitting Office
B.C. Ministry of Energy and Mines – Mines and Mineral Resources Division
3726 Alfred Ave Smithers BC V0J 2N0
Phone: (250) 847-7458
Cell: (250) 876-8403
Email: Danielle.Smyth@gov.bc.ca

MINISTRY OF ENERGY AND MINES
MAJOR MINES PERMITTING OFFICE
INFORMATION NOTE

Date: June 27, 2016
CLIFF: 95955

PREPARED FOR: Elaine McKnight, Deputy Minister, Ministry of Energy and Mines

ISSUE: Update on the Blackwater Environmental Assessment (EA)

BACKGROUND:

New Gold Inc.'s ("New Gold") Blackwater Project ("Project") is a proposed open pit gold-silver mine located in central BC, approximately 110 km southwest of Vanderhoof which will produce 60,000 tonnes per day during its 17-year mine life and is expected to employ 1,500 people during construction and 500 during operation. The Project's estimated capital cost of construction is $1.865 billion including a 140 km long 230 kV transmission line.

The 180-day environmental assessment ("EA") review started on January 12. On February 26, at New Gold's request, a 42-day extension was granted to provide additional time for First Nations to review extending the review period to 222-days. On March 30, New Gold advised the Environmental Assessment Office ("EAO") that it would be revising its water quality ("WQ") model and effects assessment, based on comments received by the Working Group ("WG"). Changes to WQ results may necessitate revised effects assessments for other valued components (e.g. water quantity, fish and fish habitat). New Gold's revised WQ submission was initially expected in late May however submission was delayed to June 30 and has since been further delayed to July 25.

To accommodate for the updated WQ submission, EAO recommended a suspension under Section 24(2) of the Act on May 9. Following discussions, New Gold and EAO agreed that upon submission of the WQ submission, New Gold would request a 60-day suspension. Other EA work, including advancing review and issue resolution on other aspects of the EA (e.g. linear corridor), would continue during suspension and the referral date would be October 20.

On June 6, New Gold provided EAO with a list of additional project changes related to water management which have the potential to reduce effects of the Project but need to be incorporated into the assessment and revised WQ submission. In addition to these new project changes and the revised WQ submission delays, New Gold was approximately one month delayed in its final responses to WG and First Nations comments (due May 2 and provided June 9). On June 22, EAO provided a letter of expectations for what is required in order to proceed with an effective review and implications to the timeframe.

Carrier Sekani First Nations ("CSFN") have made two requests to EAO to suspend the EA review to address information gaps related to WQ, tailings alternatives, wildlife, and impacts to Aboriginal rights and title. The CSFN have signed a Collaboration Agreement with the Province, which requires EAO to seek consensus on suspensions and extensions

s.13,s.21

DISCUSSION:

EAO staff are extremely concerned that there is insufficient time to complete the review of the new project changes and revised WQ modelling and effects assessment, to resolve issues and provide a complete referral to Ministers.

EAO has recommended to their Associate Deputy Minister that the suspension:

- take effect as soon as possible prior to submission of the revised WQ submission on July 25; and
- be lifted once EAO is satisfied with the adequacy of information provided, through consultation with the WG and First Nations and as outlined in EAO's June 22 letter of expectations.

EAO's Associate Deputy Minister did not accept EAO's recommendation and will be seeking to meet with New Gold as soon as possible to discuss timing and details of their submission of the new information, whether they will be requesting a suspension and what that might look like.

New Gold has previously expressed to EAO their desire for the suspension to:

- take effect upon submission of the revised WQ submission on July 25 (day 195 of the 222 day review period); and
- be time-bound (i.e. 60 days), due to concerns of potential impacts of the upcoming election period.

EAO staff have indicated that New Gold's desired approach to suspension is not feasible for the following reasons:

- 60 days is insufficient as EAO estimates requiring a minimum of 63 days for review and issue resolution following receipt of the revised WQ submission and effects assessment on July 25; and
- A suspension on day 195 of the 222-day review period will leave EAO with 27 days to draft its technical assessment report and referral package however, EAO requires approximately 65 days.

To address New Gold's concern for further delays due to CSFNs request for suspension, EAO has proposed a joint meeting with New Gold, CSFNs and the Canadian Environmental Assessment Agency to discuss CSFNs concerns.

KEY MESSAGES:

- A complete, high quality effects assessment on WQ is critical to EA review of mining projects.
- MEM acknowledges the positive steps New Gold is taking to address information gaps related to WQ and the additional project changes made during review; however, the analysis required is substantive and should be given adequate time for preparation and review.
- MEM recognizes that EAO and New Gold share a mutual interest of ensuring adequate time for EAO to undertake its assessment, consult with First Nations, resolve issues and provide a complete referral to the Ministers making the decision; EAO staff believe that in order to achieve this, suspension should be based on the receipt of adequate outstanding information.
- Obligations to the CSFNs under the Collaboration Plan are integrated in the Project schedule and EAO is working with the CSFNs on the efficient implementation of the agreement.

Attachments:

1. Letter of Expectations from EAO to New Gold, June 22

Contact:	**Alternate Contact:**	**Prepared by:**
Name:	*Name:*	*Name:*
Div/Region/Branch:	*Div/Region/Branch:*	*Branch/Region:*
Phone:	*Phone:*	*Phone:*

Reviewed by	Initials	Date
DM		
Executive Director	Amy Avila	
Author	Danielle Smyth	June 27

Loiacono, Sabrina EAO:EX

From: Bailey, Scott EAO:EX
Sent: Monday, June 27, 2016 1:34 PM
To: EAO Staff - All
Subject: UPDATE: Hold the date-Thursday June 30 s.22

Sorry all, owing to a few reasons, we have to change this plan. Apologies!

The new plan is to have lunch on Monday July 4 at Masala Bites. We need to get in a bit early as they don't take reservations – plan for 1130 if possible.

Let me know if you plan to attend so we can organize tables accordingly.

Thanks,
Scott

From: Bailey, Scott EAO:EX
Sent: Thursday, June 23, 2016 9:36 PM
To: EAO Staff - All
Subject: Hold the date-Thursday June 30 s.22

All,

Please join to s.22 next Thursday after work.

The working plan is to have some nibblies on the 4th floor deck. We will hope for sun! Perhaps we will head out afterwards.

Let me know if you plan to come, and if you can bring a little nosh.

Thanks,
Scott

Sent from my Windows Phone

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:01 PM
To: Crebo, David GCPE:EX; Kapac de Frias, Martina E ENV:EX
Cc: Craven, Paul EAO:EX; Murphy, Shelley EAO:EX
Subject: Taseko
Attachments: 2016 06 10 JP Laplante to EAO re Prosperity Amendment Final.pdf; 95255 Hallbauer to Premier May 13, 2016 - New Prosperity.pdf; Response_13May2016 Taseko letter_23June2016_FINAL.docx; TNG_24June2016_Response_FINAL.doc

Further to our quick discussion last week, we are preparing to send out our responses to TNG and Taseko's incoming correspondence tomorrow or Wednesday. We've been coordinating our efforts with MARR, who will give TNG a quick heads-up as early as today. This might see them react immediately with a NR or similar. Although we have no information to that effect, this is an emotional issue of real concern in their community.

We are just now finalising the letter for transmittal and pulling together an updated IR. If you can, Dave, it would be great if you could connect with your counterpart at MARR to coordinate messaging.

Martina: MJR was briefed last week and staff are going to let him know that the letters are proceeding tomorrow.

Let me know if you need anything further at this point.

Rgds,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

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Page 1378 to/à Page 1409

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Loiacono, Sabrina EAO:EX

From: Murphy, Shelley EAO:EX
Sent: Monday, June 27, 2016 2:06 PM
To: Jardine, Kevin EAO:EX; Neilson, Kirsten EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: TNG-Taseko

I think Steve D may have already formatted/Cliffed. Kirsten, check with him.

I have an e-sig that can be applied when we are ready.

Paul, I can work with you on the IN this afternoon. Just needs updating as to what our response is, now that we are prepared to send the letters.

Shelley

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:04 PM
To: Neilson, Kirsten EAO:EX; Murphy, Shelley EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: TNG-Taseko

Could I as, Kirsten, that you please CLIFF and format the attached letters in preparation for distribution? I'd like them to be ready to go as early as tomorrow.

Shelley: Can you please make sure Paul has what he needs to update the IN or let Steve know to do so? On a practical note, how do we get your signature on the Taseko letter?

Rgds,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Loiacono, Sabrina EAO:EX

From: Starks, Terri EAO:EX
Sent: Monday, June 27, 2016 2:13 PM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: SMT

FYI: I wasn't going to attend SMT this aft. Cheryl will be attending.

Terri

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:13 PM
To: Starks, Terri EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: RE: SMT

Thanks for letting me know, Terri.

From: Starks, Terri EAO:EX
Sent: Monday, June 27, 2016 2:13 PM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: SMT

FYI: I wasn't going to attend SMT this aft. Cheryl will be attending.

Terri

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:19 PM
To: Waters, Cory EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: 20160627 BKW BN EA Update_Final
Attachments: 20160627 BKW BN EA Update_Final.docx

Thanks, Cory. Please see my suggested edit in the attached.

Page 1414 to/à Page 1416

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From:	Brubacher, Kelly IGRS:EX on behalf of Maranda, Pierrette IGRS:EX
Sent:	Monday, June 27, 2016 2:24 PM
To:	BCPSA Agency DMC List; BCPSA Agency DM Associates
Cc:	BCPSA Agency DMC Admin & Operational Support; BCPSA Agency DM Associates Admin & Operational Support; Whitford, Kelly M JTST:EX
Subject:	Pacific Relations Digest
Attachments:	Pacific Relations Digest_June 2016_.pdf

Colleagues,

Attached is the latest issue of the Pacific Relations Digest on emerging issues around the Pacific Rim.

IGRS produces this overview of political and government trends and events in the Pacific region periodically. This issue briefly comments on Brexit and Asia; Canada's agreement with Pacific Alliance countries; and recent developments in the Philippines, Japan, China and India.

If you have any questions or comments, please let us know. Thank you.

Pierrette

Page 1418 to/à Page 1422

Withheld pursuant to/removed as

s.16;s.21

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:24 PM
To: Kapac de Frias, Martina E ENV:EX; Crebo, David GCPE:EX
Subject: RE: call

Thx for the heads-up.

From: Kapac de Frias, Martina E ENV:EX
Sent: Monday, June 27, 2016 2:23 PM
To: Jardine, Kevin EAO:EX; Crebo, David GCPE:EX
Subject: call

Kevin – we might be a bit late for the 2:30 call

Thank you,

Martina Kapac de Frias
Chief of Staff to the Hon. Mary Polak
Minister of Environment
Ph: 250.387.1187 | E: Martina.Kapacdefrias@gov.bc.ca

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:38 PM
To: Bailey, Scott EAO:EX
Subject: Next Monday

Are you around next week, Scott?

Rgds,
K.
250-361-6753

Loiacono, Sabrina EAO:EX

From: Bailey, Scott EAO:EX
Sent: Monday, June 27, 2016 2:39 PM
To: Jardine, Kevin EAO:EX
Subject: RE: Next Monday

Yes. How can I serve?

Sent from my Windows Phone

From: Jardine, Kevin EAO:EX
Sent: 2016-06-27 2:37 PM
To: Bailey, Scott EAO:EX
Subject: Next Monday

Are you around next week, Scott?

Rgds,
K.
250-361-6753

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:50 PM
To: Kapac de Frias, Martina E ENV:EX
Cc: Crebo, David GCPE:EX; Neilson, Kirsten EAO:EX
Subject: Re:

Sorry. We have another meeting with senior management at 3.

I'll ask here that Kirsten please reschedule.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 27, 2016, at 2:45 PM, Kapac de Frias, Martina E ENV:EX <Martina.KapacdeFrias@gov.bc.ca> wrote:

> Can we do call at 3?
>
> Thank you,
>
> **Martina Kapac de Frias**
> Chief of Staff to the Hon. Mary Polak
> Minister of Environment
> Ph: 250.387.1187 | E: Martina.Kapacdefrias@gov.bc.ca

Loiacono, Sabrina EAO:EX

From: Standen, Jim ENV:EX
Sent: Monday, June 27, 2016 2:53 PM
To: ENV Executive Committee
Cc: ENV EXC Exec Br Support
Subject: FYI - Servie Dleivery Board RoD
Attachments: Service Delivery Board_ROD_Jun 23.docx

Service Delivery Board
Record of Decision – June 23, 2016

In attendance:

- Bev Dicks, ADM, MTICS (Co-Chair)
- Raymond Fieltsch, ED, SDSI (Co-Chair)
- Christine Massey, ADM, MCFD
- Paige MacFarlane, ADM, AVED
- Christine Little, ADM, SBRT
- Wilf Bangert, ADM, NRTS
- Denise Champion, ADM, GCPE
- Greg Steves, ADM, OHCS
- Jim Standen, ADM, ENV
- Steven Emery, ED, FIN
- Marcin Zaranski, Exec Lead, NRTS
- Georgina Hodson, MGR, AGRI
- Chris Hauff, ED, MTICS
- Alex MacLennan, ED, PSSG
- Bernard Achampong, ED, JAG
- Stu Hackett, ED, MTICS
- David Hume, ED, GCPE
- Scarlette Verjinschi, ED, MTIC (on phone)
- Satish Perhar, ED, FIN (on phone)
- Jamie Jeffreys, DIR, FLNR (on phone)
- Kevin Ford, MGR, FIN (presenter)

Agenda	Record of Decision
Definition of Corporate Enablers *For endorsement*	**Result:** Stu Hackett proposed a definition of a Corporate Enabler. Stu was asked to provide a value proposition and further described the criteria to meet the corporate enabler definition. The proposed definition was not endorsed. **Action:** Stu was asked to distribute a revised definition to the Board for endorsement.
Pay BC Update *For information*	**Result:** Kevin Ford presented an update on the functionality and capabilities of the PayBC platform. PayBC is looking to onboard new programs areas.
Personalized Service Update *For information*	**Result:** David Hume presented an update on Personalized Service. The Personalized Service team is looking for: a) Executives to validate their value proposition for service providers b) Services or programs that fit with their persona and have the capacity to work with the team
Service Modernization, Service Integration and Consolidation (Service BC and SDSI) *For information*	**Result:** Bev Dicks provided an update on the partnership between Service BC and Social Development and Social Innovation to provide enhanced services for citizens out of Service BC offices. Service BC is looking for new Ministry partners who would benefit from service modernization, integration and consolidation.

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 2:57 PM
To: Bailey, Scott EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: Re: Next Monday

I'm away after next Tuesday, but have been invited by Heather to join her in meeting with Lax/Met Chiefs (i.e. Helin & Leighton) & TESA Chiefs in two sequential meetings on the afternoon of July 14th.

So, I'd like the opportunity to bring Michelle up to speed on the twists & turns of PNW before I leave.

Can you join us in my office at 2:30 next Monday afternoon?

Rgds,
K.
250-361-6753

On Jun 27, 2016, at 2:38 PM, Bailey, Scott EAO:EX <Scott.Bailey@gov.bc.ca> wrote:

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> ---
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> **Sent:** 2016-06-27 2:37 PM
> **To:** Bailey, Scott EAO:EX
> **Subject:** Next Monday
>
> Are you around next week, Scott?
>
> Rgds,
> K.
> 250-361-6753

Loiacono, Sabrina EAO:EX

From: Bailey, Scott EAO:EX
Sent: Monday, June 27, 2016 2:59 PM
To: Jardine, Kevin EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: RE: Next Monday

Indeed.

Sent from my Windows Phone

From: Jardine, Kevin EAO:EX
Sent: 2016-06-27 2:57 PM
To: Bailey, Scott EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: Re: Next Monday

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K.
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> **Subject:** Next Monday
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>
> Rgds,
> K.
> 250-361-6753

Page 1431 to/à Page 1437

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DUPLICATE

Page 1438 to/à Page 1440

Withheld pursuant to/removed as

s.22

Loiacono, Sabrina EAO:EX

From: Doug Konkin <s.22
Sent: Monday, June 27, 2016 3:59 PM
To: Jardine, Kevin EAO:EX; Mayhew, Neilane ABR:EX; Murphy, Shelley EAO:EX
Cc: Wheler, Francesca M ABR:EX
Subject: TNG - New Prosperity call completed

Talked to Jay and JP at 3:30 PDT. They were grateful for heads up and will wait to see letter. They thought it would be premature to schedule a meeting next week but agreed a clarification call might be necessary. We were hoping Shelly could be available for a half hour sometime during our meeting on the 7th.

s.13,s.16

Doug Konkin

Loiacono, Sabrina EAO:EX

From:	Crozier, Bev ENV:EX
Sent:	Monday, June 27, 2016 3:50 PM
To:	ENV Executive Committee
Cc:	ENV EXC Exec Br Support
Subject:	Draft June 24 Executive Meeting Notes
Attachments:	June 24 - Draft Minutes.docx

Good afternoon everyone

Attached please find the draft June 24 Executive meeting notes.

Please note the various ACTION items, with June 30 being the date ADMs need to respond back to Scott with their appointed FOI division approvers.

Thank you,

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Page 1443 to/à Page 1452

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 4:26 PM
To: 'Doug Konkin'; Mayhew, Neilane ABR:EX; Murphy, Shelley EAO:EX
Cc: Wheler, Francesca M ABR:EX
Subject: RE: TNG - New Prosperity call completed

Thanks very much for both making the call so quickly and your follow-up note, Doug. It's much appreciated.

-----Original Message-----
From: Doug Konkin [mailto:dougwkonkin@gmail.com]
Sent: Monday, June 27, 2016 3:59 PM
To: Jardine, Kevin EAO:EX; Mayhew, Neilane ABR:EX; Murphy, Shelley EAO:EX
Cc: Wheler, Francesca M ABR:EX
Subject: TNG - New Prosperity call completed

Talked to Jay and JP at 3:30 PDT. They were grateful for heads up and will wait to see letter. They thought it would be premature to schedule a meeting next week but agreed a clarification call might be necessary. We were hoping Shelly could be available for a half hour sometime during our meeting on the 7th.

s.13,s.16

Doug Konkin

Loiacono, Sabrina EAO:EX

From: Murphy, Shelley EAO:EX
Sent: Monday, June 27, 2016 4:32 PM
To: Jardine, Kevin EAO:EX; 'Doug Konkin'; Mayhew, Neilane ABR:EX
Cc: Wheler, Francesca M ABR:EX
Subject: RE: TNG - New Prosperity call completed

Thanks Doug. I can be available on the 7th to call in as needed. Just let me know when.

Sent from my Windows Phone

From: Jardine, Kevin EAO:EX
Sent: 2016-06-27 4:26 PM
To: 'Doug Konkin'; Mayhew, Neilane ABR:EX; Murphy, Shelley EAO:EX
Cc: Wheler, Francesca M ABR:EX
Subject: RE: TNG - New Prosperity call completed

Thanks very much for both making the call so quickly and your follow-up note, Doug. It's much appreciated.

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Sent: Monday, June 27, 2016 3:59 PM
To: Jardine, Kevin EAO:EX; Mayhew, Neilane ABR:EX; Murphy, Shelley EAO:EX
Cc: Wheler, Francesca M ABR:EX
Subject: TNG - New Prosperity call completed

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s.13,s.16

Doug Konkin

Page 1455 to/à Page 1458

Withheld pursuant to/removed as

DUPLICATE

Page 1459 to/à Page 1472

Withheld pursuant to/removed as

s.12;s.16;s.13

Loiacono, Sabrina EAO:EX

From: Anderson, Steve PREM:EX
Sent: Monday, June 27, 2016 4:52 PM
To: Jardine, Kevin EAO:EX
Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: RE: Request: [s.12]

Thanks kindly!!

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From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 4:52 PM
To: Anderson, Steve PREM:EX
Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: RE: Request [s.12]

Here it is, Steve.

Let me know if you need anything further,
K.

From: Anderson, Steve PREM:EX
Sent: Monday, June 27, 2016 4:50 PM
To: Jardine, Kevin EAO:EX
Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: Request: [s.12]

Hi Kevin

May you (or one of your team) send us the PPT format version of the presentation going forward tomorrow? We need that format to show on screen.

Thanks

Steve

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From: Jardine, Kevin EAO:EX
Sent: Thursday, June 23, 2016 4:34 PM
To: MacMillan, Elizabeth PREM:EX
Cc: Anderson, Steve PREM:EX; Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono,

Sabrina EAO:EX; Craven, Paul EAO:EX; Kapac de Frias, Martina E ENV:EX
Subject: RE: s.12

Please find attached, Elizabeth, the revised PPT.

Best rgds,
K.

From: Jardine, Kevin EAO:EX
Sent: Thursday, June 23, 2016 12:18 PM
To: MacMillan, Elizabeth PREM:EX
Cc: Anderson, Steve PREM:EX; Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX
Subject: Re: s.12

Sorry, Elizabeth, I misunderstood Kim's note & so spoke to MMP about ensuring we spoke to this linkage. I hadn't realized that she was looking for an edit to the PPT.

We'll get on it right away and have a revised version for you tomorrow.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 23, 2016, at 11:50 AM, MacMillan, Elizabeth PREM:EX <Elizabeth.MacMillan@gov.bc.ca> wrote:

> Hi Kevin - Kim was looking for revisions to the ppt according to her note below. The version presented to her just now from Cab ops did not include what she was seeking. Pls can u advise if a refreshed ppt is in the works?
> Thx
> E
>
> Begin forwarded message:
>
> > **From:** "Henderson, Kim N PREM:EX" <Kim.Henderson@gov.bc.ca>
> > **Date:** June 23, 2016 at 12:27:54 PM MDT
> > **To:** "MacMillan, Elizabeth PREM:EX" <Elizabeth.MacMillan@gov.bc.ca>
> > **Subject: Fwd:** s.12
> >
> > Begin forwarded message:
> >
> > > **From:** "Henderson, Kim N PREM:EX" <Kim.Henderson@gov.bc.ca>
> > > **Date:** June 20, 2016 at 3:52:01 PM MDT

To: "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
Subject: s.12

s.12

Thanks.

Loiacono, Sabrina EAO:EX

From: Waters, Cory EAO:EX
Sent: Monday, June 27, 2016 5:27 PM
To: Jardine, Kevin EAO:EX
Subject: RE: Request: s.12

Thanks Kevin, just to confirm too that I am not going to be in attendance tomorrow, as there is no Chambers in Vic. So, will be at Musqueam.

Hopefully next time!

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 4:52 PM
To: Anderson, Steve PREM:EX
Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: RE: Request: s.12

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K.

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Cc: Anderson, Steve PREM:EX; Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Kanac de Frias, Martina E ENV:EX
Subject: RE: s.12

Please find attached, Elizabeth, the revised PPT.

Best rgds,
K.

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Cc: Anderson, Steve PREM:EX; Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX
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Sorry, Elizabeth, I misunderstood Kim's note & so spoke to MMP about ensuring we spoke to this linkage. I hadn't realized that she was looking for an edit to the PPT.

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> > > **Date:** June 20, 2016 at 3:52:01 PM MDT
> > > **To:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> > > **Subject:** s.12

Page 1478 to/à Page 1479

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 5:28 PM
To: Waters, Cory EAO:EX
Subject: RE: Request: s.12

Thanks, Cory. We'll try and orchestrate something another time as opportunities emerge.

From: Waters, Cory EAO:EX
Sent: Monday, June 27, 2016 5:27 PM
To: Jardine, Kevin EAO:EX
Subject: RE: Request: s.12

Thanks Kevin, just to confirm too that I am not going to be in attendance tomorrow, as there is no Chambers in Vic. So, will be at Musqueam.

Hopefully next time!

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Sent: Monday, June 27, 2016 4:52 PM
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> >
> > Begin forwarded message:

Page 1482 to/à Page 1485

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From:	Morris, Tricia ABR:EX
Sent:	Wednesday, June 22, 2016 4:02 PM
To:	Zacharias, Mark ENV:EX; Robb, Peter L. MEM:EX; Kittleson, Christian ABR:EX; Bunce, Hubert ENV:EX; Demchuk, Tania MEM:EX; Berg, Shane ABR:EX; Amann-Blake, Nathaniel MEM:EX; Gash, Michael ABR:EX; Driedger, Erika ABR:EX
Cc:	Birnie, Kayla ABR:EX
Subject:	June 30th Principals Table materials
Attachments:	June 2016 Update on Auditor General Report Implementation.docx; Mount Polley LOU Activities Update June 2016.docx

Hello everyone,

See attached Ministers briefing information for the upcoming Principals table on June 30th.

Thanks,
Tricia

Tricia Morris
Reconciliation Negotiator
Integrated Negotiations Branch
Ministry of Aboriginal Relations and Reconciliation
Phone: 250-387-5237
Mobile: 250-213-1605
Email: Tricia.Morris@gov.bc.ca

Page 1487 to/à Page 1510

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Waters, Cory EAO:EX
Sent: Monday, June 27, 2016 7:35 PM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
Subject: s.12
Attachments: Leadership Presentation 30June2016.pptx

Thanks Kevin, done! I'll send to Tony F copy FNEMC, MARR and MEM.

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 7:26 PM
To: Waters, Cory EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
Subject: Re: Request: PPT format of ppt for Cwgfn re EA

Thx, Cory. The PPT looks good, w

s.12,s.13

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 27, 2016, at 6:43 PM, Waters, Cory EAO:EX <Cory.Waters@gov.bc.ca> wrote:

> Kevin, at today's Mt. Polley Senior Officials Committee, MEM requested a short deck for use on Friday at the Principals Table. I suspect I will deliver, and s.16 Before I send to MEM and MARR, I invite your thoughts. I suspect it may need to reflect any direction that emerges tomorrow.
>
> I've requested an annotated agenda for Thursday. Given I've prepared the attached deck, I'm hoping that serves EAO's purpose. Please advise if you think we need more.
>
> Also attached is the draft agenda (meeting time has been changed to 2-4, but not reflected in the agenda items). MARR did provide the attached email package that is going to Ministers, along with an earlier agenda.
>
> Quick update too about today's SOC meeting - Dave Porter voiced dissatisfaction with time delays in getting funding approved and contribution agreement finalized, which has precluded advancing our workshops from occurring this past spring. He spoke to the potential coordination of the EA workshops with BC AFN as part of their round #2 economic discussions, and/or potential linkages to regional sessions planned with FN Health Authorities and Fisheries Councils. I attempted to reframe this as an opportunity to use All Chiefs as a promotional opportunity, availing us the next few weeks to attempt to plan workshops and promote those regional sessions in whatever form they take. I also noted that Aaron Bruce is intended by FNEMC to facilitate the workshops, and that we needed to engage in stakeholder updates before and after the All Chiefs. Dave noted that there wasn't budget (but didn't

speak to Paul Blom's point that they would seek industry support and $$s for these sessions) but they generally wanted that to happen, subject to the FN workshops being the priority.

C.

From: Jardine, Kevin EAO:EX
Sent: Monday, June 27, 2016 4:52 PM
To: Anderson, Steve PREM:EX
Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: RE: Request: s.12

Here it is, Steve.

Let me know if you need anything further,
K.

From: Anderson, Steve PREM:EX
Sent: Monday, June 27, 2016 4:50 PM
To: Jardine, Kevin EAO:EX
Cc: Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Powell, Charlotte PREM:EX
Subject: Request: s.12

Hi Kevin

May you (or one of your team) send us the PPT format version of the presentation going forward tomorrow? We need that format to show on screen.

Thanks

Steve

Warning: *This email is intended only for the use of the individual or organization to whom it is addressed. It may contain information that is privileged or confidential. Any distribution, disclosure, copying, or other use by anyone else is strictly prohibited. If you have received this in error, please telephone or e-mail the sender immediately and delete the message.*

From: Jardine, Kevin EAO:EX
Sent: Thursday, June 23, 2016 4:34 PM
To: MacMillan, Elizabeth PREM:EX
Cc: Anderson, Steve PREM:EX; Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Kapac de Frias, Martina E ENV:EX
Subject: RE: s.12

Please find attached, Elizabeth, the revised PPT.

Best rgds,
K.

From: Jardine, Kevin EAO:EX
Sent: Thursday, June 23, 2016 12:18 PM

To: MacMillan, Elizabeth PREM:EX
Cc: Anderson, Steve PREM:EX; Finkel, Paul PREM:EX; Massy, Michelle E PREM:EX; Waters, Cory EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX
Subject: Re: s.12

Sorry, Elizabeth, I misunderstood Kim's note & so spoke to MMP about ensuring we spoke to this linkage. I hadn't realized that she was looking for an edit to the PPT.

We'll get on it right away and have a revised version for you tomorrow.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 23, 2016, at 11:50 AM, MacMillan, Elizabeth PREM:EX <Elizabeth.MacMillan@gov.bc.ca> wrote:

> Hi Kevin - Kim was looking for revisions to the ppt according to her note below. The version presented to her just now from Cab ops did not include what she was seeking. Pls can u advise if a refreshed ppt is in the works?
> Thx
> E
>
> Begin forwarded message:
>
> **From:** "Henderson, Kim N PREM:EX" <Kim.Henderson@gov.bc.ca>
> **Date:** June 23, 2016 at 12:27:54 PM MDT
> **To:** "MacMillan, Elizabeth PREM:EX" <Elizabeth.MacMillan@gov.bc.ca>
> **Subject: Fwd:** s.12
>
> Begin forwarded message:
>
> **From:** "Henderson, Kim N PREM:EX" <Kim.Henderson@gov.bc.ca>
> **Date:** June 20, 2016 at 3:52:01 PM MDT
> **To:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> **Subject:** s.12
>
> s.12,s.13
>
> Thanks.

<mime-attachment>
<Mount Polley Principals Table Meeting June 30 Draft Agenda.docx>
<Leadership Presentation 30June2016 cw.pptx>

Page 1515 to/à Page 1521

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Esri UC <newsletter@esri.com>
Sent: Monday, June 27, 2016 7:59 PM
To: Jardine, Kevin EAO:EX
Subject: Esri UC Plenary Session Videos Now Live




View email in web browser

Experience the Plenary Session Like You Were There

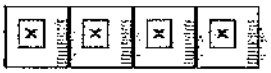
Videos from the Esri UC Plenary Session are now available online. Even though you couldn't make it to Esri UC, we want to make sure you can experience inspiring user stories and tech demos from this year's event.

Please feel free to share these videos with your colleagues and show them how GIS is enabling a smarter world.

Meet. Map. Master.

Watch the Videos

You received this date to your Esri User Conference subscription.
Update your subscription preferences.
Esri.com | Privacy | Contact Us
Copyright © 2016 Esri. All rights reserved.
Esri, 380 New York Street, Redlands, CA 92373, USA.





Page 1523 to/à Page 1526

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DUPLICATE

Page 1527 to/à Page 1591

Withheld pursuant to/removed as

s.3

Page 1592 to/à Page 1597

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Fenton, Chrystal EAO:EX
Sent: Tuesday, June 28, 2016 9:17 AM
To: Simpson, Vickie L EAO:EX; Batty, Adam EAO:EX; Black, Brenda EAO:EX; Carlson, Justin EAO:EX; Cheema, Kashmiro K EAO:EX; Cousins, Autumn EAO:EX; Del Raye, Nicole EAO:EX; Haines, Mark R EAO:EX; Heinz, Rose EAO:EX; Lawrence, Cheryl A EAO:EX; McDonald, Geoff L EAO:EX; McLean, Alex D EAO:EX; McNeil, Sean EAO:EX; Milne, Andrew EAO:EX; Parks, Chris EAO:EX; Pizarro, Kirsten EAO:EX; Rathbone, Mary EAO:EX; Rennert-May, Leya EAO:EX; Scraba, Erin H EAO:EX; Simpson, Vickie L EAO:EX; Stockman, Fern P EAO:EX; Tombs, Joanna EAO:EX; Vinette, Nicole EAO:EX; Walton, Lindsay EAO:EX; Weaver, Colleen EAO:EX; Woods, Helen EAO:EX; EAO Staff - 2nd Floor 836 Yates; EAO Staff - 4th Floor 836 Yates
Subject: RE: Invitation to T[s.22]

Good morning,

Just a reminder that[s.22] is tomorrow afternoon. Please feel free to bring a snack/appies/baked good to share if you like. There will be tea/coffee and cake as well.

Hope to see you all there!

Thank you
Chrystal

From: Simpson, Vickie L EAO:EX
Sent: Tuesday, June 7, 2016 10:59 AM
To: EAO Staff - All
Subject: Invitation to[s.22]



Invitation to [s.22]

s.22



Date: June 29th

Time: 2:30 to 3:30pm
Location: 1st Floor Large Boardroom

Please feel free to bring in snacks/appies/squares for this event.
A cake will be provided.

Thanks and hope to see you all there.

Loiacono, Sabrina EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Tuesday, June 28, 2016 9:32 AM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX
Subject: Request: Revised Prosperity IN for Review/Approval
Attachments: IN_EAO_Prosperity_CertificateExtensionDecision_28June2016.docx

Hi Kevin,

Please see below for a link to the revised Prosperity IN (also attached to this e-mail). It has been reviewed by Shelley, Paul and Cory. If you would like any changes made before it goes to the MO, please let me know.

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_28June2016.docx

Thanks...

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

Page 1601 to/à Page 1603

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DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 10:17 AM
To: Vinette, Nicole EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX
Subject: Re: Request: Revised Prosperity IN for Review/Approval

Thx, Nicole. This looks fine. Please flag once again with GCPE that they coordinate any messaging with their colleagues at MARR.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 9:31 AM, Vinette, Nicole EAO:EX <Nicole.Vinette@gov.bc.ca> wrote:

> Hi Kevin,
>
> Please see below for a link to the revised Prosperity IN (also attached to this e-mail). It has been reviewed by Shelley, Paul and Cory. If you would like any changes made before it goes to the MO, please let me know.
>
> \\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_28June2016.docx
>
> Thanks...
>
> ~Nicole
>
> Nicole Vinette
> Manager of Communications & Stakeholder Engagement
> Environmental Assessment Office
>
> 250-356-5311
> Nicole.Vinette@gov.bc.ca
> <image001.jpg>
>
> <IN_EAO_Prosperity_CertificateExtensionDecision_28June2016.docx>

From: Karn, David GCPE:EX
Sent: Tuesday, June 28, 2016 9:22 AM
To: Vinette, Nicole EAO:EX
Cc: Craven, Paul EAO:EX
Subject: media request - Alaska Hwy News - Site C compliance

Nicole,

Took a stab at this with the bg from the IN.

Reporter: Zoe Ducklow, AHN reporter@ahnfsj.ca

Deadline: 1pm

Request: questions about the warnings you issued to BC Hydro regarding Site C.

Firstly, I just want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks? Is this warning issued because they've failed to have procedures in place, or because there have been hydrocarbon spills that were poorly dealt with? And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

Suggested response:

want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks?

- EAO C&E Officers observed hazardous waste, hydrocarbon contaminated waste, recyclables, and domestic waste mixed together in single bins. Lack of segregation of waste and recyclables leads to the improper disposal of waste, including hydrocarbon contaminated waste and hazardous waste, in area landfills contrary to project requirements and the *Environmental Management Act* (the Act).
- EAO C&E Officers also observed numerous vehicles and equipment leaking hydrocarbon to ground, and hydrocarbon spills that had not been cleaned up as required. Failure to clean up and properly dispose of spilled or leaked hydrocarbons leads to contaminated soil and water.

And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

- The waste management Order requires that BC Hydro segregate all waste types and recyclables in clearly marked receptacles and conduct daily monitoring:

- The hydrocarbon management Order requires that BC Hydro:
    - conduct daily monitoring of vehicles, equipment, and storage areas to identify hydrocarbon leaks; and
    - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.

- BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.

Loiacono, Sabrina EAO:EX

From:	Vinette, Nicole EAO:EX
Sent:	Tuesday, June 28, 2016 10:19 AM
To:	Jardine, Kevin EAO:EX
Cc:	Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject:	Re: Request: Revised Prosperity IN for Review/Approval

Thanks Kevin, will do.

-Nicole

On Jun 28, 2016 10:17 AM, "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca> wrote:
Thx, Nicole. This looks fine. Please flag once again with GCPE that they coordinate any messaging with their colleagues at MARR.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 9:31 AM, Vinette, Nicole EAO:EX <Nicole.Vinette@gov.bc.ca> wrote:

> Hi Kevin,
>
> Please see below for a link to the revised Prosperity IN (also attached to this e-mail). It has been reviewed by Shelley, Paul and Cory. If you would like any changes made before it goes to the MO, please let me know.
>
> \\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Prosperity_CertificateExtensionDecision_28June2016.docx
>
> Thanks…
>
> ~Nicole

Nicole Vinette

Manager of Communications & Stakeholder Engagement

Environmental Assessment Office

250-356-5311

Nicole.Vinette@gov.bc.ca

<image001.jpg>

<IN_EAO_Prosperity_CertificateExtensionDecision_28June2016.docx>

Loiacono, Sabrina EAO:EX

From: Poustie, Jessica ABR:EX
Sent: Tuesday, June 28, 2016 11:25 AM
To: ABR All excluding Minister's Office; FLNR All; ENV All; MEM All
Subject: Permanent Employement Opportunity - Senior Resource Coordination Officer - Surrey

Are you a dynamic individual?
Are you interested in working with First Nations?
Do you have a passion for natural land and resource operations?

If you answered yes, then this opportunity is for you. This opportunity is open to both internal and external candidates.

For more information please see below:

LSO 3: External (non-employee) applicants: https://search.employment.gov.bc.ca/cgi-bin/a/highlightjob.cgi?jobid=34471
STO 27: External (non-employee) applicants: https://search.employment.gov.bc.ca/cgi-bin/a/highlightjob.cgi?jobid=34472

For any questions, please feel free to contact me.

Jessica Poustie
Regional Executive Administrator - Coast
Negotiations and Regional Operations Division

Ministry of Aboriginal Relations and Reconciliation
142 - 2080 Labieux Road Nanaimo BC V9T 6J9
Phone: 250 751 3237 | Fax: 250 751 3245
Email: Jessica.Poustie@gov.bc.ca

Please consider the environment before printing this email

Loiacono, Sabrina EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Tuesday, June 28, 2016 12:02 PM
To: Kapac de Frias, Martina E ENV:EX; Knudsen, Mark ENV:EX
Cc: Jardine, Kevin EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Crebo, David GCPE:EX; Karn, David GCPE:EX
Subject: Prosperity Gold-Copper Project Amendment Request - Revised IN
Attachments: IN_EAO_Prosperity_Amendment Request_28June2016.docx

Hi Martina,

Please find attached a revised IN re: the Prosperity amendment request. Sabrina, could you please post it on the Sharepoint site?

If you have any questions, please let me know. Thanks...

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

Page 1611 to/à Page 1613

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From:	Burton, Danielle PSA:EX
Sent:	Tuesday, June 28, 2016 12:15 PM
To:	Halls, Lori D PSA:EX; Caul, Doug D ABR:EX; Dawes, Jacquie CSCD:EX; Hughes, Trevor LBR:EX; Jardine, Kevin EAO:EX; Kot, Jill EDUC:EX; Main, Grant TRAN:EX; Manwaring, Richard G FLNR:EX; Massey, Christine MCF:EX; Mentzelopoulos, Athana FIN:EX; Sandstrom, Kurt JAG:EX
Cc:	Looysen, Alison PSA:EX; Paine, Alison PSA:EX; Bronee, Rueben PSA:EX; Taylor, Alyssa B PSA:EX; Sparks, Sarah ABR:EX; Restall, Emma CSCD:EX; Clunn, Karen E LBR:EX; Loiacono, Sabrina EAO:EX; Moir, Lindsay EDUC:EX; Plamondon, Lea TRAN:EX; Troke, Corri-Ann FLNR:EX; Tran, Kim C (Victoria) MCF:EX; Nicholson, Riley FIN:EX; Youell, Brandie JAG:EX
Subject:	materials for Corporate Succession Management Board

Good afternoon,

The materials for the next Corporate Succession Management meetings are now posted on SharePoint here. If you have any trouble accessing the site, please let me know.

You will notice there are *three different meeting dates and times on the agenda*. Calendar availability has led us to schedule separate times to cover the materials to allow as many members as possible to participate in the discussion.

Please also note I have sent the materials to all members, even if they have sent regrets, for their interest and reference.

Please don't hesitate to contact me if you have questions.

Regards,
Danielle

Loiacono, Sabrina EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Tuesday, June 28, 2016 12:19 PM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX
Subject: Media Request - Alaska Hwy News - Site C compliance - For Approval - Deadline 1pm

Hi Kevin,

Please see below for a draft response to the media request below from the Alaska Hwy News re: the Site C non-compliance orders. The response has been reviewed by Autumn and Paul and the deadline for the reporter is 1pm. If you see anything you would like changed before it goes back to GCPE, please let me know.

Reporter: Zoe Ducklow, AHN reporter@ahnfsj.ca

Deadline: 1pm

Request: questions about the warnings you issued to BC Hydro regarding Site C.

Firstly, I just want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks? Is this warning issued because they've failed to have procedures in place, or because there have been hydrocarbon spills that were poorly dealt with? And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

Suggested response:

want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks?

- EAO C&E Officers observed hazardous waste, hydrocarbon contaminated waste, recyclables, and domestic waste mixed together in single bins. Lack of segregation of waste and recyclables leads to the improper disposal of waste, including hydrocarbon contaminated waste and hazardous waste, in area landfills contrary to project requirements and the *Environmental Management Act* (the Act).
- EAO C&E Officers also observed numerous vehicles and equipment leaking hydrocarbon to ground, and hydrocarbon spills that had not been cleaned up as required. Failure to clean up and properly dispose of spilled or leaked hydrocarbons leads to contaminated soil and water.
- The hydrocarbon leaks were from construction equipment, and include engine oil and hydraulic oil, and grease. No gasoline was identified.

And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

- The waste management Order requires that BC Hydro segregate all waste types (which includes domestic waste, hydrocarbon-contaminated material, and hazardous waste) and recyclables in clearly marked receptacles and conduct daily monitoring.
- The hydrocarbon management Order requires that BC Hydro:
    - conduct daily monitoring of vehicles, equipment, and storage areas to identify hydrocarbon leaks; and
    - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.
- BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.
- A copy of the Environmental Assessment Office's Compliance and Enforcement Policy is available online at http://www.eao.gov.bc.ca/files/c&e/EAO_Compliance_Policy_%20Procedure_v6_20150720.pdf

Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

- The Environmental Assessment Office will undertake another inspection (no specific date has been set yet) to determine whether the measures in the order have been carried out.
- If there is continued non-compliance, the Environmental Assessment Office would consider all the relevant factors to determine whether to exercise its authority under the *Environmental Assessment Act* to proceed with additional enforcement.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO Environmental Assessment Office

From: Karn, David GCPE:EX
Sent: Tuesday, June 28, 2016 9:22 AM
To: Vinette, Nicole EAO:EX
Cc: Craven, Paul EAO:EX
Subject: media request - Alaska Hwy News - Site C compliance

Nicole,

Took a stab at this with the bg from the IN.

Reporter: Zoe Ducklow, AHN reporter@ahnfsj.ca

Deadline: 1pm

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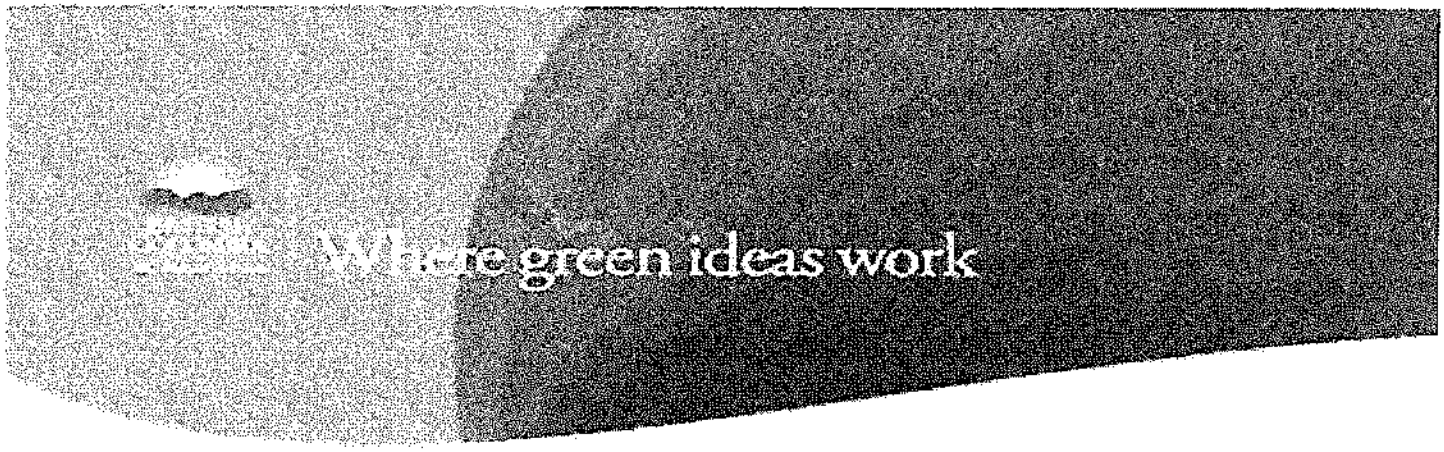
    - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.

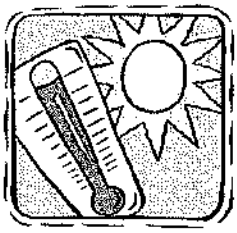
- BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.

Loiacono, Sabrina EAO:EX

From: Oord, Haydee ENV:EX
Sent: Tuesday, June 28, 2016 12:40 PM
To: ENV All
Subject: HOW DO YOU BEAT THE SUMMER HEAT?: Participate in the Stay Cool Challenge and win prizes this Summer



Helio Environment staff,



Summer is here. How have you managed to stay cool these days and/or lower the energy consumption in your building?

Even if your building's air conditioning set-points are already optimal (or you otherwise are unable to change them) there is still plenty you and your colleagues
can do to make sure the system runs at maximum efficiency: conserving electricity, reducing GHG emissions, and saving money.
And one of the biggest bang for our buck = **Tilting Window Blinds!**

I invite you to get involved in this year's **Stay Cool Challenge** and spread the word to your colleagues - *You can participate and accumulate tickets till Labour Day!*

HOW? Participate in the "3Ps" for Cool Prizes this summer

- **Pledge** - *gets you... into Regional Prize Draw + Earns Tickets + Doubles the number of tickets you earn afterward...*
- **Participate** - *Earns Tickets (& maybe local prizes too) + creates 'Post' opportunities...*
- **Post** - *Earn Tickets + some direct prizes*

I have seen some great images show up on the Stay Cool Photo Pool - **2016 gallery**... your one stop shop for cool shots, still chills, sublime blinds, and other icy cold actions!
Use this gallery to *post photos of you/r colleagues "being cool" (and attending events, participating in activities)* to earn

This week's mini challenge: (deadline=Wednesday 29th June - #1#2 combo's allowed)

#1 "photo rookies"

... any photos OF or Posted BY somebody with zero tickets via the PHOTO POOL so far == DOUBLE TICKETS

#2 "quoth the reader"

Stay tuned for updates to participate in the weeks to come, however here are some ideas to start:

- submitting a pledge (plus it doubles your tickets going forward)
- posting a comment on a blog (e.g. that receives the most "likes" by certain time/date)
- being a recorded participant in an "official" Stay Cool Event in your office (e.g. lunch 'n' learn; e.g. getting facilities to increase your A/C temperature set-points)
- posting photos on the Stay Cool Photo Pool
- photograph of appropriate blind tilting (1/week - including being mentioned in another's photo)
- photograph of blinds closed before the weekend (1/week - ditto)
- photograph of your work-and-weather-appropriate fashion statement (ditto)
- photograph of your "cool moves" (e.g. selecting a "cooler" work space in an LWS environment) or "still of your chill", (e.g. taking a break to walk outside to "cool down"
  or grab a "cool glass of water")
- having your posted photograph above receive the most @Work gallery "likes"
- pay attention for ad-hoc challenges!

Thanks for all your support.

Sincerely,

Haydee Oord – Ministry of Environment Green Team lead

Are you Staying Cool?
Participate in this years' Stay Cool Challenge starting June 20th

Tel: 250-387-9456
Email: Haydee.Oord@gov.bc.ca




green.gov.bc.ca

Loiacono, Sabrina EAO:EX

From: Bates, Julia EAO:EX
Sent: Tuesday, June 28, 2016 12:46 PM
To: Jardine, Kevin EAO:EX
Cc: Starks, Terri EAO:EX; Lawrence, Cheryl A EAO:EX; Weaver, Colleen EAO:EX; Loiacono, Sabrina EAO:EX
Subject: For Associate DM Approval: PAM Hiring Approval
Attachments: Hiring Approval Form PAM position June.27.2016.docx

Hi Kevin,
Please find attached Hiring Approval Form for up to two permanent PAM positions, and one potential 12 month TA. Terri/Cheryl have provided their sign off from a budgetary perspective on the form itself and it is now ready for your approval.

Should you have any questions please let us know.

Thank you,

Julia Bates
Manager, EA Operations
Environmental Assessment Operations
BC Environmental Assessment Office
T: 250-356-7490

Hiring Approval Form Number:



All internal and external hiring requests – including regular, temporary and auxiliary appointments, renewals and extensions require approval by the Associate Deputy Minister.

Position Title	Project Assessment Manager (PAM)
Position Number	*00095358 and 00107538*
Number of Positions	Up to two permanent positions Note: Dependent on outcome of budget discussions, a 12-month TA may be sought
Classification	Business Lead
Location	Victoria
Type of Hire (Permanent/ Temporary/ Auxiliary)	*2 Permanent – current vacant base & PAM leaving in Sept.* *1 Temporary 12 month TA, budget permitting*
If TA or Auxiliary, indicate start and end date/ term	PERM – as soon as possible; TEMP - TBD
For Auxiliary extensions only – would it result in a conversion? (1827 consecutive hours)	N/A
If Auxiliary, can position be posted as regular position?	N/A
Internal of External (if external explain rationale)	Seeking approval to post External to BC Public Service. Rationale: By obtaining approval to post external to government we will ensure that the candidate pool is diverse and that new talent is recruited to the office; an eligibility list will be established to reduce administrative costs attributed to the frequent competitions of this position.
Covered within current STOB 50 ministry forecast?	Yes. Both permanent salaries are in the current funding budget. One from Operations budget and the second from capacity funding. TA - TBD

What is the rationale behind filling this position at this time?

Critical Front Line Service		Citizen Health & Safety		Urgent Gov Priority Jobs Plan		Urgent Gov Priority LNG	
Direct	Indirect	Direct	Indirect	Direct	Indirect	Direct	Indirect
				X		X	

EAO is responsible for environmental assessments of major projects in BC, including LNG plants, natural gas pipeline, power and mining projects.
The PAM position plays a central role in the organization as they are required to lead environmental assessments through the entirety of the process ensuring legislated timelines are met. PAMs manage assigned internal and external (e.g. consultant) resources, and make significant statutory decisions that are subject to challenge from a range of interests. All existing PAMs have full workloads and are leading active EAs. One A/PAM has recently accepted a position at FLNRO and a second PAM will be leaving in September.

Director, Business Services Recommendation:

Both the permanent PAM positions are in the current funding model which is on track through salary savings to come in on budget (only needs to find approx. $170K). By the time the hiring process is complete, Operations will know if they have funding for the PAM TA that would be hired from the eligibility list. I support the permanent hires and further discussions with Cheryl regarding the TA and other hiring will need to happen first.

Signature: **"Terri Starkes"**	**Date: June 28, 2016**

Associate Deputy Minister Approval:

Signature:	**Date:**

Hiring Approval Form Number:

Name of Person Hired:	**Date:**
Position #	**Perm/ Temp:**

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 12:53 PM
To: Vinette, Nicole EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX
Subject: Re: Media Request - Alaska Hwy News - Site C compliance - For Approval - Deadline 1pm

Excellent responses, thx, Nicole. Approved.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 12:18 PM, Vinette, Nicole EAO:EX <Nicole.Vinette@gov.bc.ca> wrote:

> Hi Kevin,
>
> Please see below for a draft response to the media request below from the Alaska Hwy News re: the Site C non-compliance orders. The response has been reviewed by Autumn and Paul and the deadline for the reporter is 1pm. If you see anything you would like changed before it goes back to GCPE, please let me know.
>
> Reporter: Zoe Ducklow, AHN reporter@ahnfsj.ca
>
> Deadline: 1pm
>
> Request: questions about the warnings you issued to BC Hydro regarding Site C.
>
> Firstly, I just want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks? Is this warning issued because they've failed to have procedures in place, or because there have been hydrocarbon spills that were poorly dealt with? And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?
>
> Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?
>
> Suggested response:
>
> **want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks?**
>
> - EAO C&E Officers observed hazardous waste, hydrocarbon contaminated waste, recyclables, and domestic waste mixed together in single bins. Lack of segregation of waste and recyclables leads to

the improper disposal of waste, including hydrocarbon contaminated waste and hazardous waste, in area landfills contrary to project requirements and the *Environmental Management Act* (the Act).

- EAO C&E Officers also observed numerous vehicles and equipment leaking hydrocarbon to ground, and hydrocarbon spills that had not been cleaned up as required. Failure to clean up and properly dispose of spilled or leaked hydrocarbons leads to contaminated soil and water.
- The hydrocarbon leaks were from construction equipment, and include engine oil and hydraulic oil, and grease. No gasoline was identified.

And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

- The waste management Order requires that BC Hydro segregate all waste types (which includes domestic waste, hydrocarbon-contaminated material, and hazardous waste) and recyclables in clearly marked receptacles and conduct daily monitoring.
- The hydrocarbon management Order requires that BC Hydro:
    - conduct daily monitoring of vehicles, equipment, and storage areas to identify hydrocarbon leaks; and
    - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.
- BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.
- A copy of the Environmental Assessment Office's Compliance and Enforcement Policy is available online at http://www.eao.gov.bc.ca/files/c&e/EAO_Compliance_Policy_%20Procedure_v6_20150720.pdf

Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

- The Environmental Assessment Office will undertake another inspection (no specific date has been set yet) to determine whether the measures in the order have been carried out.
- If there is continued non-compliance, the Environmental Assessment Office would consider all the relevant factors to determine whether to exercise its authority under the *Environmental Assessment Act* to proceed with additional enforcement.

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca
<image001.jpg>

Loiacono, Sabrina EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Tuesday, June 28, 2016 12:53 PM
To: Jardine, Kevin EAO:EX
Subject: Re: Media Request - Alaska Hwy News - Site C compliance - For Approval - Deadline 1pm

Thanks for the quick response, Kevin!

On Jun 28, 2016 12:52 PM, "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca> wrote:
Excellent responses, thx, Nicole. Approved.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 12:18 PM, Vinette, Nicole EAO:EX <Nicole.Vinette@gov.bc.ca> wrote:

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Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

Suggested response:

want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks?

- EAO C&E Officers observed hazardous waste, hydrocarbon contaminated waste, recyclables, and domestic waste mixed together in single bins. Lack of segregation of waste and recyclables leads to the improper disposal of waste, including hydrocarbon contaminated waste and hazardous waste, in area landfills contrary to project requirements and the *Environmental Management Act* (the Act).

- EAO C&E Officers also observed numerous vehicles and equipment leaking hydrocarbon to ground, and hydrocarbon spills that had not been cleaned up as required. Failure to clean up and properly dispose of spilled or leaked hydrocarbons leads to contaminated soil and water.

- The hydrocarbon leaks were from construction equipment, and include engine oil and hydraulic oil, and grease. No gasoline was identified.

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- The hydrocarbon management Order requires that BC Hydro:

    - conduct daily monitoring of vehicles, equipment, and storage areas to identify hydrocarbon leaks; and

    - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.

- BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.

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Second, what is the penalty for failing to comply? Is there a certain threshold of warnings after which a penalty will be issued?

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- If there is continued non-compliance, the Environmental Assessment Office would consider all the relevant factors to determine whether to exercise its authority under the *Environmental Assessment Act* to proceed with additional enforcement.

~Nicole

Nicole Vinette

Manager of Communications & Stakeholder Engagement

Environmental Assessment Office

250-356-5311

Nicole.Vinette@gov.bc.ca

<image001.jpg>

From: Karn, David GCPE:EX
Sent: Tuesday, June 28, 2016 9:22 AM
To: Vinette, Nicole EAO:EX
Cc: Craven, Paul EAO:EX
Subject: media request - Alaska Hwy News - Site C compliance

Nicole,

Took a stab at this with the bg from the IN.

Reporter: Zoe Ducklow, AHN reporter@ahnfsj.ca

Deadline: 1pm

Request: questions about the warnings you issued to BC Hydro regarding Site C.

Firstly, I just want to clarify what the warnings are actually for. When referring to hydrocarbon leaks and spills, are you talking about gas for trucks? Is this warning issued because they've failed to have procedures in place, or because there have been hydrocarbon spills that were poorly dealt with? And the second warning about separating recyclables... to clarify, this means they're not recycling things like paper and water bottles? Or does this refer to more industrial type waste?

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Suggested response:

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    - immediately clean up leaks to ground, properly dispose of hydrocarbon contaminated soil.

- BC Hydro is working to rectify the situation. They have addressed the waste management and hydrocarbon issues identified on previous inspections throughout the Project, except in one contractor's area of responsibility (Morgan Construction and Environmental Ltd.). The Orders are specific to that contractor's areas.

Loiacono, Sabrina EAO:EX

From: Tanya Smith <tsmith@twnation.ca>
Sent: Tuesday, June 28, 2016 12:13 PM
To: Jardine, Kevin EAO:EX
Cc: Smith, Alanya C EAO:EX; Shepard, Michael EAO:EX; Braun, Nathan EAO:EX; 'Jaime Sanchez'; 'Singbeil, Samantha'; Kanzaki, Art; Ernie George; Melanie Walker
Subject: TWN Feasibility Studies - Eagle-Mountain Pipeline Project
Attachments: 13_097_TWN June 27 Feasibility Studies PKG 1_to_EAO_signed.pdf

Dear Kevin,

Please find attached a covering letter as well as the five Feasibility Studies that Tsleil-Waututh and FortisBC worked on jointly in respect of the Eagle Mountain-Woodfibre LNG pipeline project.

We look forward to hearing from you.

Kind Regards,

Tanya Smith

Senior Referrals Analyst – EA Specialist
Treaty, Lands and Resources Department
Tsleil-Waututh Nation
3075 Takaya Drive, North Vancouver, V7H 3A8
(604) 924-4150 (office)
(604) 349-8824 (cell)
tsmith@twnation.ca

TSLEIL-WAUTUTH NATION

People of the Inlet

Our ref: 13-097

June 27, 2016

Sent Via E-mail
Kevin Jardine
BC Environmental Assessment Office
PO Box 9426 Stn Prov Govt
Victoria, BC V8W 9V1
E-mail: Kevin.Jardine@gov.bc.ca

Dear Mr. Jardine,

RE: Eagle Mountain – Woodfibre LNG Pipeline Expansion Project ("Project")

Ongoing Request from Tsleil-Waututh Nation that you Extend the Suspension of the EAO's Environmental Assessment of the Project

Thank you for meeting with me on June 23, 2016 to discuss Tsleil-Waututh Nation's request that you exercise your powers under s. 24(2) of the *Environmental Assessment Act* to continue the suspension of the EAO's environmental assessment of the Project.

Prior to the meeting, Tsleil-Waututh Nation, jointly with Musquem, submitted a letter to you on June 20 that requested a continuation of the suspension, in addition to listing our reasons for this request; this was further discussed, during the meeting. In particular we discussed one of the key reasons for the continued suspension: the need for the EAO to receive the new Feasibility Studies, review them, consult with Tsleil-Waututh about their content, and to revise the draft referrals package accordingly. All of this work will take time to complete; the current EA timeline will not provide sufficient time for the EAO to meaningfully address this new information.

The five Feasibility Studies, which were finalized today, are enclosed. Each Study documents preliminary analysis of micro-routing options and potential construction methodologies for further investigation in respect of Tsleil-Waututh Nation's Work Avoidance Zones within the Indian River Watershed ("WAZ") along the proposed pipeline route.

3075 Takaya Drive North Vancouver, B.C. V7H 3A8 Tel: 604-924-4186 Fax: 604-929-4158

Tsleil-Waututh Nation's WAZ are designated areas of significant environmental and cultural value to our Nation. Each 'zone' is unique in character and extent. We require the highest caliber of diligence in assessing potential project development in these areas. To be clear, the *Environmental Assessment Act* and Tsleil-Waututh Nation's Stewardship Policy both require this additional assessment to be conducted as part of the EA process.

These Studies were collaboratively developed by FortisBC and Tsleil-Waututh Nation in response to Tsleil-Waututh's specific concerns in relation to the currently proposed pipeline route. Specifically, that route will cause highly significant impacts to sacred parts of our Territory, and correspondingly (and unjustifiably) infringe our Aboriginal title, rights, and interests. The objective of each Study was to clearly identify issues, determine options, and evaluate the associated risks and benefits of any construction undertaken in the WAZ. With this information, Tsleil-Waututh was able to identify preferred micro-routes and construction methods at each location for FortisBC to investigate further. FortisBC has since committed to carry out these additional investigations in correspondence that Tsleil-Waututh received on June 15, 2016. To date, we have been pleased with the progress made on this matter. However, this additional work, and the new information provided in the Studies, must be incorporated into the EAO's assessment of the Project and the draft referrals package before the Project is referred to the Ministers.

The Feasibility Studies provide new information that is relevant to the following components of the AIR:

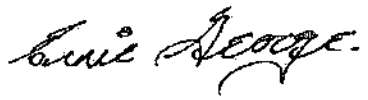
- 1.3 Applicable Authorizations;
- 1.4 Alternative means of undertaking the Proposed Project;
- 4.1 Environmental Effects Assessment: Geophysical;
- 4.3 Environmental Effects Assessment: Water;
- 4.4 Environmental Effects Assessment: Fish and Fish Habitat;
- 4.7 Environmental Effects Assessment: Wildlife;
- 6.2 Social Effects Assessment: Land and Resource Use;
- 7.1 Heritage Effects Assessment: Heritage;
- 9.0 Accidents and Malfunctions;
- 10. Effects of Environment on the Project;
- 12. Aboriginal Interests;
- 13. Other Matters of Concern to Aboriginal Groups; and
- 14. Summary.

The EAO must take the necessary time to adequately and fairly consider the new information contained in these Studies, and to subsequently provide Tsleil-Waututh time to provide consultation on their contents. The draft Assessment Report and draft Technical Report (drafts received May 24 2016) must then also be revised based on this new information.

We respectfully suggest that a further discussion with you is necessary to determine an appropriate length of time to continue the current suspension. Please have your staff contact Tanya Smith at tsmith@twnation or (604) 924-4150 to set up a meeting with me.

We are committed to working with the EAO and FortisBC to ensure our mutual interests are met through the environmental assessment process.

Respectfully,



Ernie George
Director, Treaty, Lands and Resources Department
Tsleil-Waututh Nation
3075 Takaya Drive, North Vancouver, V7H 3A8
P 604.924.4183
F 604.929.4158

C: Alanya Smith, BCEAO
Michael Shepard, BCEAO
Nathan Braun, BCEAO
Jaime Sanchez, Musqueam
Samantha Singbeil, FortisBC
Art Kanzaki, FortisBC

Page 1635 to/à Page 1718

Withheld pursuant to/removed as

s.16;s.18;s.21

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Tuesday, June 28, 2016 1:17 PM
To: Vinette, Nicole EAO:EX; Knudsen, Mark ENV:EX
Cc: Jardine, Kevin EAO:EX; Craven, Paul EAO:EX; Crebo, David GCPE:EX; Karn, David GCPE:EX
Subject: RE: Prosperity Gold-Copper Project Amendment Request - Revised IN

This has been uploaded.

Kind regards,
S.

From: Vinette, Nicole EAO:EX
Sent: Tuesday, June 28, 2016 12:02 PM
To: Kapac de Frias, Martina E ENV:EX; Knudsen, Mark ENV:EX
Cc: Jardine, Kevin EAO:EX; Loiacono, Sabrina EAO:EX; Craven, Paul EAO:EX; Crebo, David GCPE:EX; Karn, David GCPE:EX
Subject: Prosperity Gold-Copper Project Amendment Request - Revised IN

Hi Martina,

Please find attached a revised IN re: the Prosperity amendment request. Sabrina, could you please post it on the Sharepoint site?

If you have any questions, please let me know. Thanks...

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 1:26 PM
To: Braun, Nathan EAO:EX; Shepard, Michael EAO:EX
Subject: Fwd: TWN Feasibility Studies - Eagle-Mountain Pipeline Project

Apart from thanking Tanya, please advise as to how I should respond.

My inclination is to indicate that we'll be reviewing them and anticipate responding shortly to discuss any implications on the Assessment Report and timing.

Sound OK?

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

Begin forwarded message:

> **From:** "Tanya Smith" <tsmith@twnation.ca>
> **To:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> **Cc:** "Smith, Alanya C EAO:EX" <Alanya.Smith@gov.bc.ca>, "Shepard, Michael EAO:EX" <Michael.Shepard@gov.bc.ca>, "Braun, Nathan EAO:EX" <Nathan.Braun@gov.bc.ca>, "'Jaime Sanchez'" <jsanchez@musqueam.bc.ca>, "'Singbeil, Samantha'" <Samantha.Singbeil@fortisbc.com>, "Kanzaki, Art" <Art.Kanzaki@fortisbc.com>, "Ernie George" <egeorge@twnation.ca>, "Melanie Walker" <mwalker@twnation.ca>
> **Subject: TWN Feasibility Studies - Eagle-Mountain Pipeline Project**
>
> Dear Kevin,
>
> Please find attached a covering letter as well as the five Feasibility Studies that Tsleil-Waututh and FortisBC worked on jointly in respect of the Eagle Mountain-Woodfibre LNG pipeline project.
>
> We look forward to hearing from you.
>
> Kind Regards,
>
> **Tanya Smith**
>
> Senior Referrals Analyst – EA Specialist
> Treaty, Lands and Resources Department
> Tsleil-Waututh Nation
> 3075 Takaya Drive, North Vancouver, V7H 3A8
> (604) 924-4150 (office)
> (604) 349-8824 (cell)

tsmith@twnation.ca

<13_097_TWN June 27 Feasibility Studies PKG 1_to_EAO_signed.pdf>

Page 1722 to/à Page 1727

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 1:46 PM
To: Jardine, Kevin EAO:EX
Subject: Roberts Bank

Hi Kevin,

We have just finished presenting to the panel. All went well. A couple of questions. The panel has clearly heard our message and acknowledged the coordination efforts required in such a short time frame.

Monica, David and Kate did a great job in ensuring I was prepared and the process is running smoothly. Ministries are up now for the rest of the afternoon.

Paul

Sent from my iPhone

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 1:48 PM
To: Craven, Paul EAO:EX
Subject: RE: Roberts Bank

Excellent, thx, Paul. I appreciate the update and am glad to hear that the Panel recognises the positive role we've been playing (assuming that's not going too far).

-----Original Message-----
From: Craven, Paul EAO:EX
Sent: Tuesday, June 28, 2016 1:46 PM
To: Jardine, Kevin EAO:EX
Subject: Roberts Bank

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Paul

Sent from my iPhone

Loiacono, Sabrina EAO:EX

From: Shepard, Michael EAO:EX
Sent: Tuesday, June 28, 2016 2:07 PM
To: Jardine, Kevin EAO:EX; Braun, Nathan EAO:EX
Subject: RE: TWN Feasibility Studies - Eagle-Mountain Pipeline Project

I agree with your proposed response. We are currently also reviewing comments submitted late yesterday by MIB and TWN and hope to provide both with a red-lined, revised draft of our referral materials that demonstrate how we have considered their comments and material.

Mike

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 1:26 PM
To: Braun, Nathan EAO:EX; Shepard, Michael EAO:EX
Subject: Fwd: TWN Feasibility Studies - Eagle-Mountain Pipeline Project

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250-361-6753

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> **To:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> **Cc:** "Smith, Alanya C EAO:EX" <Alanya.Smith@gov.bc.ca>, "Shepard, Michael EAO:EX" <Michael.Shepard@gov.bc.ca>, "Braun, Nathan EAO:EX" <Nathan.Braun@gov.bc.ca>, "'Jaime Sanchez'" <jsanchez@musqueam.bc.ca>, "'Singbeil, Samantha'" <Samantha.Singbeil@fortisbc.com>, "Kanzaki, Art" <Art.Kanzaki@fortisbc.com>, "Ernie George" <egeorge@twnation.ca>, "Melanie Walker" <mwalker@twnation.ca>
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Tanya Smith

Senior Referrals Analyst – EA Specialist
Treaty, Lands and Resources Department
Tsleil-Waututh Nation
3075 Takaya Drive, North Vancouver, V7H 3A8
(604) 924-4150 (office)
(604) 349-8824 (cell)
tsmith@twnation.ca

<13_097_TWN June 27 Feasibility Studies PKG 1_to_EAO_signed.pdf>

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Tuesday, June 28, 2016 2:14 PM
To: Neilson, Kirsten EAO:EX; Jardine, Kevin EAO:EX
Cc: Fenton, Chrystal EAO:EX
Subject: Training: Staff Safety at Open Houses

Good afternoon,

Tomorrow morning from 8:30am until noon I will be participating in the staff training session on Staff Safety at Open Houses. Please let me know if you foresee any issues.

S.

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Tuesday, June 28, 2016 2:27 PM
To: Jardine, Kevin EAO:EX
Subject: FW: Pre-Brief for DM Mtg - Reducing Violence Against Women in Work Camps

Kevin,

There is a pre-brief tomorrow morning for the "Reducing Violence Against Women in Work Camps" that you are not attending. The pre-brief conflicts with your other meetings. Will Scott be attending in your place and did you want me to flip the invitation to him?

Kind regards,
S.

From: Salkus, Beverley MNGD:EX
Sent: Tuesday, June 28, 2016 9:42 AM
To: Kwan, Shirley JTST:EX; Ryall, Karen HLTH:EX; Benn, Jennifer MCF:EX; Hoskins, Jeannie PSSG:EX; McCann, Meghan MEM:EX; Restall, Analise MNGD:EX; Loiacono, Sabrina EAO:EX; Sparks, Sarah ABR:EX
Subject: Pre-Brief for DM Mtg - Reducing Violence Against Women in Work Camps

Good morning,

Dave Nikolejsin has asked for you to pass on to your DM's that there is a pre-brief tomorrow morning for the "Reducing Violence Against Women in Work Camps" meeting that takes place tomorrow from 2-4pm.

The pre-brief is Wednesday, June 29th at 11am.

Please let me know if staff would like to attend and I will extend the invite to them.

Thank you,

Shanna Quigley on behalf of:
Beverley Salkus
Senior Executive Assistant to
Deputy Minister Dave Nikolejsin
Ministry of Natural Gas Development
8th Floor, 1810 Blanshard Street, Victoria BC
Ph: (250) 952-0504

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 2:28 PM
To: Loiacono, Sabrina EAO:EX
Subject: RE: Pre-Brief for DM Mtg - Reducing Violence Against Women in Work Camps

I don't see the 2-4 meeting in my calendar, Sabrina, so I don't think we need attend the pre-brief.

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Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Tuesday, June 28, 2016 2:36 PM
To: Jardine, Kevin EAO:EX
Subject: RE: Pre-Brief for DM Mtg - Reducing Violence Against Women in Work Camps

We had originally declined it as you were attending MT Polly Principles meeting. I will send your regrets to the pre-brief.

Kind regards,
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Deputy Minister Dave Nikolejsin
Ministry of Natural Gas Development
8th Floor, 1810 Blanshard Street, Victoria BC
Ph: (250) 952-0504

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 2:46 PM
To: Bates, Julia EAO:EX
Cc: Starks, Terri EAO:EX; Lawrence, Cheryl A EAO:EX; Weaver, Colleen EAO:EX; Loiacono, Sabrina EAO:EX
Subject: RE: For Associate DM Approval: PAM Hiring Approval

Thx, Julia. Approved for signature.

From: Bates, Julia EAO:EX
Sent: Tuesday, June 28, 2016 12:46 PM
To: Jardine, Kevin EAO:EX
Cc: Starks, Terri EAO:EX; Lawrence, Cheryl A EAO:EX; Weaver, Colleen EAO:EX; Loiacono, Sabrina EAO:EX
Subject: For Associate DM Approval: PAM Hiring Approval

Hi Kevin,
Please find attached Hiring Approval Form for up to two permanent PAM positions, and one potential 12 month TA. Terri/Cheryl have provided their sign off from a budgetary perspective on the form itself and it is now ready for your approval.

Should you have any questions please let us know.

Thank you,

Julia Bates
Manager, EA Operations
Environmental Assessment Operations
BC Environmental Assessment Office
T: 250-356-7490

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 2:46 PM
To: Shepard, Michael EAO:EX; Braun, Nathan EAO:EX
Subject: RE: TWN Feasibility Studies - Eagle-Mountain Pipeline Project

Good. Thx very much, Mike.

From: Shepard, Michael EAO:EX
Sent: Tuesday, June 28, 2016 2:07 PM
To: Jardine, Kevin EAO:EX; Braun, Nathan EAO:EX
Subject: RE: TWN Feasibility Studies - Eagle-Mountain Pipeline Project

I agree with your proposed response. We are currently also reviewing comments submitted late yesterday by MIB and TWN and hope to provide both with a red-lined, revised draft of our referral materials that demonstrate how we have considered their comments and material.

Mike

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 1:26 PM
To: Braun, Nathan EAO:EX; Shepard, Michael EAO:EX
Subject: Fwd: TWN Feasibility Studies - Eagle-Mountain Pipeline Project

Apart from thanking Tanya, please advise as to how I should respond.

My inclination is to indicate that we'll be reviewing them and anticipate responding shortly to discuss any implications on the Assessment Report and timing.

Sound OK?

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

Begin forwarded message:

> **From:** "Tanya Smith" <tsmith@twnation.ca>
> **To:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> **Cc:** "Smith, Alanya C EAO:EX" <Alanya.Smith@gov.bc.ca>, "Shepard, Michael EAO:EX" <Michael.Shepard@gov.bc.ca>, "Braun, Nathan EAO:EX" <Nathan.Braun@gov.bc.ca>, "'Jaime Sanchez'" <jsanchez@musqueam.bc.ca>, "'Singbeil, Samantha'" <Samantha.Singbeil@fortisbc.com>, "Kanzaki, Art" <Art.Kanzaki@fortisbc.com>, "Ernie George" <egeorge@twnation.ca>, "Melanie Walker"

<mwalker@twnation.ca>
Subject: TWN Feasibility Studies - Eagle-Mountain Pipeline Project

Dear Kevin,

Please find attached a covering letter as well as the five Feasibility Studies that Tsleil-Waututh and FortisBC worked on jointly in respect of the Eagle Mountain-Woodfibre LNG pipeline project.

We look forward to hearing from you.

Kind Regards,

Tanya Smith

Senior Referrals Analyst – EA Specialist
Treaty, Lands and Resources Department
Tsleil-Waututh Nation
3075 Takaya Drive, North Vancouver, V7H 3A8
(604) 924-4150 (office)
(604) 349-8824 (cell)
tsmith@twnation.ca

<13_097_TWN June 27 Feasibility Studies PKG 1_to_EAO_signed.pdf>

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 2:48 PM
To: 'Tanya Smith'
Cc: Smith, Alanya C EAO:EX; Shepard, Michael EAO:EX; Braun, Nathan EAO:EX; 'Jaime Sanchez'; 'Singbeil, Samantha'; Kanzaki, Art; Ernie George; Melanie Walker
Subject: RE: TWN Feasibility Studies – Eagle-Mountain Pipeline Project

Thanks very much, Tanya, for the Feasibility Studies.

We look forward to reviewing them and anticipate being back in touch shortly thereafter to discuss the implications on the Assessment Report and referral timing.

With best rgds,
K.

From: Tanya Smith [mailto:tsmith@twnation.ca]
Sent: Tuesday, June 28, 2016 12:13 PM
To: Jardine, Kevin EAO:EX
Cc: Smith, Alanya C EAO:EX; Shepard, Michael EAO:EX; Braun, Nathan EAO:EX; 'Jaime Sanchez'; 'Singbeil, Samantha'; Kanzaki, Art; Ernie George; Melanie Walker
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We look forward to hearing from you.

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(604) 349-8824 (cell)
tsmith@twnation.ca

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 2:50 PM
To: Kapac de Frias, Martina E ENV:EX; Shoemaker, Wes ENV:EX; Knudsen, Mark ENV:EX; Delaney, Kirby ENV:EX
Subject: RE: Invitation de l'honorable Catherine McKenna, ministre de l'Environnement et du Changement climatique / Invitation from the Honourable Catherine McKenna, Minister of Environment and Climate Change

Thx very much, Martina.

Mark: Can you please let me know if CabOps agrees to move the s.12 to the top of the agenda so that I can let staff know? Thanks.

From: Kapac de Frias, Martina E ENV:EX
Sent: Tuesday, June 28, 2016 2:05 PM
To: Shoemaker, Wes ENV:EX; Jardine, Kevin EAO:EX; Knudsen, Mark ENV:EX; Delaney, Kirby ENV:EX
Subject: Fwd: Invitation de l'honorable Catherine McKenna, ministre de l'Environnement et du Changement climatique / Invitation from the Honourable Catherine McKenna, Minister of Environment and Climate Change

Hi all,

MMP will take part in this call - no staff needed.

Kirby. We will need leave for the latter portion of ELUC pls

Also MMP will need a room to take this call pls.

MArk K - can we bump up our ELUC piece to the beginning of the agenda (EAO NARS piece), if not - Staff can present on MMPs behalf

Thanks. M,

Begin forwarded message:

> **From:** "Minister, ENV ENV:EX" <ENV.Minister@gov.bc.ca>
> **Date:** June 28, 2016 at 10:54:31 AM PDT
> **To:** "Kapac de Frias, Martina E ENV:EX" <Martina.KapacdeFrias@gov.bc.ca>
> **Subject: FW: Invitation de l'honorable Catherine McKenna, ministre de l'Environnement et du Changement climatique / Invitation from the Honourable Catherine McKenna, Minister of Environment and Climate Change**
>
> This one just came in this morning- it is for Thursday. Thoughts?
>
> ---
>
> **From:** Ministre / Minister (EC) [mailto:ec.ministre-minister.ec@canada.ca]
> **Sent:** Tuesday, June 28, 2016 6:37 AM
> **To:** 'AEP.Minister@gov.ab.ca'; Minister, ENV ENV:EX; 'perrytrimper@gov.nl.ca';

'Wally_Schumann@gov.nt.ca'; 'minsdev@leg.gov.mb.ca'; 'Serge.Rousselle@gnb.ca'; 'minister.environment@novascotia.ca'; 'Minister.moecc@ontario.ca'; 'rjmitchell@gov.pe.ca'; 'ministre@mddelcc.gouv.qc.ca'; 'env.minister@gov.sk.ca'; 'wade.istchenko@gov.yk.ca'; 'jsavikataaq@gov.nu.ca'
Subject: Invitation de l'honorable Catherine McKenna, ministre de l'Environnement et du Changement climatique / Invitation from the Honourable Catherine McKenna, Minister of Environment and Climate Change

English follows

Chers collègues,

Je souhaite vous inviter à participer à une téléconférence pour échanger sur les priorités fédérales en matière de changement climatique et d'évaluation environnementale. Cette discussion servira de complément au processus du cadre pancanadien mené sous l'égide du Conseil canadien des ministres de l'environnement. J'ai eu récemment des entretiens avec quelques-uns d'entre vous. Toutefois, cette téléconférence nous permettra de discuter collectivement de nos priorités respectives concernant ces dossiers clés.

Voici les détails de la téléconférence :

Date : Jeudi 30 juin 2016
Heure : 14 h - 15 h (heure avancée de l'Est)
Numéro à composer : s.17
Code de la conférence

Veuillez confirmer votre présence le plus tôt possible auprès de madame Nicole Ladouceur au 819-938-3654 ou *nicole.ladouceur@canada.ca*.

Un ordre du jour officiel pour cette téléconférence suivra sous peu.

Meilleures salutations,

L'honorable Catherine McKenna, C.P., députée
Ministre de l'Environnement et du Changement climatique

***

Dear Colleagues,

I wish to invite you to participate in a teleconference to share federal priorities on climate change and environmental assessment. This discussion will complement the pan-Canadian framework process held under the auspices of Canadian Council of Ministers of the Environment. I have recently had initial conversations with a few of you. However, this will be an opportunity to collectively discuss our respective priorities on these key matters.

Details of the teleconference are as follows:

Date: Thursday, June 30, 2016
Time: 2:00-3:00 p.m. (Eastern Daylight Time)
Dial-in: s.17
Confere

Please confirm your attendance with Ms. Nicole Ladouceur at 819-938-3654 or *nicole.ladouceur@canada.ca*, as soon as possible.

A formal agenda for this teleconference will soon follow.

Sincerely,

The Honourable Catherine McKenna, P.C., M.P.
Minister of Environment and Climate Change

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 3:15 PM
To: Shepard, Michael EAO:EX
Cc: Braun, Nathan EAO:EX; Neilson, Kirsten EAO:EX
Subject: EM

I have in my eApprovals, Mike, the letter to Fortis lifting the suspension effective June 30th.

I had thought that we we're first going to review the Feasibility Studies and determine how to address the 5 areas of potential micro-realignment prior to lifting the extension, but perhaps I misunderstood. Can you confirm?

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 3:58 PM
To: Plecas, Bobbi PREM:EX; Baskerville, Shannon JTST:EX; Champion, Denise GCPE:EX; Hughes, Bette-Jo MTIC:EX; McEwan, Tim SBRT:EX; Taylor, Sheila A SDSI:EX
Cc: Burton, Danielle PSA:EX; Kwan, Shirley JTST:EX; Chauvin, Lindsay JTST:EX; Thorkelson, Meaghan GCPE:EX; Molyneux, Jennifer MTIC:EX; Loiacono, Sabrina EAO:EX; Jang, Monica SBRT:EX; Ramsay, Launa P SDSI:EX
Subject: RE: Summary and Next Steps - CEB meeting

You mentioned, Bobbi, that you would welcome submissions to inform the "principles" discussion at our next meeting. In that spirit, I've provided the relevant principles from both the US and the UK below.

You'll note that there's some significant commonality between them (which maybe suggests that ours may not look too different). Taken together, the UK's more high-level principles and the US' more tactical "playbook" provide guidance on both the "what" and "how" of service (re)design.

Speaking of which, here's a relatively short blog entry that, I think, helps to put these principles into a government delivery context: https://blog.mattedgar.com/2015/05/12/most-of-government-is-mostly-service-design-most-of-the-time-discuss/

From the UK (https://www.gov.uk/design-principles):

1. Start with needs
2. Do less
3. Design with data
4. Do the hard work to make it simple
5. Iterate. Then iterate again.
6. This is for everyone
7. Understand the context
8. Build digital services, not websites
9. Be consistent, not uniform
10. Make things open: it makes things better.

And the US (https://playbook.cio.gov/#plays_index_anchor):

1. Understand what people need
2. Address the whole experience, from start to finish
3. Make it simple and intuitive
4. Build the service using agile and iterative practices
5. Structure budgets and contract to support delivery
6. Assign one leader and hold that person accountable
7. Bring in experienced teams
8. Choose a modern technology stack
9. Deploy in a flexible hosting environment
10. Automate testing and deployments
11. Manage security and privacy through reusable processes
12. Use data to drive decisions
13. Default to open

Best rgds,
K.

From: Olson, Alisha PREM:EX **On Behalf Of** Plecas, Bobbi PREM:EX
Sent: Wednesday, June 22, 2016 10:33 AM
To: Baskerville, Shannon JTST:EX; Champion, Denise GCPE:EX; Hughes, Bette-Jo MTIC:EX; Jardine, Kevin EAO:EX; McEwan, Tim SBRT:EX; Taylor, Sheila A SDSI:EX
Cc: Burton, Danielle PSA:EX; Kwan, Shirley JTST:EX; Chauvin, Lindsay JTST:EX; Thorkelson, Meaghan GCPE:EX; Molyneux, Jennifer MTIC:EX; Loiacono, Sabrina EAO:EX; Jang, Monica SBRT:EX; Ramsay, Launa P SDSI:EX
Subject: Summary and Next Steps - CEB meeting

Good morning,

This is a quick note to follow up on last Thursday's Citizens' Experience Board meeting. I found the discussion fruitful, and feel we have a good path forward for our contribution to the October renewal of Being the Best.

I'd like to test my understanding with the group before we proceed with developing materials for our next meeting. This is what I think I heard:

- Technology is evolving rapidly, making it a challenge for us to define what service delivery will look like in 10 years.
- The compelling narrative may be best articulated through a set of principles for how citizens experience their interactions with government. These principles can then form the basis for a vision.
- Our scope is broad enough to include consideration of all services across all channels, however our initial focus is on digital services with high volume and/or high perceived value.
- The narrative we develop must:
    - Be simple – prioritize action over complex frameworks
    - Reflect the diversity of the province (e.g. rural, urban, community size)
    - Explain *why* to citizens and employees.

Deliverables
End of July:

- Build out CEB work plan
- Approve principles for inclusion in Being the Best

Fall 2016:

- Inventory of current projects: service delivery / transformation projects underway in government - including timeline to implement and who is leading (source: Service Delivery Board, GCIO)
- Inventory of current (as-is) operations: services currently being delivered – including volumes (source: SDSI and MTICS)
- Gap analysis
    - What activities must be undertaken to accelerate the transition from the current state to one where we are delivering on the principles?
    - What is the level of effort to close the gap?
    - What might we tackle first?

Immediate next steps

- Attend a meeting of the Service Delivery Board in July **(Bobbi)**
- Draft principles for discussion at July 5 meeting **(Secretariat)**
- Send Secretariat (Danielle Burton) names of potential external speakers for CEB meetings to build common knowledge base for CEB members **(all)**

- Send Secretariat previous work on principles and standards **(Denise)**
- Start planning Corporate Exec agenda item for October **(Secretariat)**

Thank you for your support on this important work.

Sincerely,

Bobbi Plecas
Associate Deputy Minister, Corporate Initiatives
Office of the Premier

Loiacono, Sabrina EAO:EX

Subject:	PNW Update
Location:	Kevin's Office
Start:	Mon 2016-07-04 12:30 PM
End:	Mon 2016-07-04 1:00 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Jardine, Kevin EAO:EX
Required Attendees:	Carr, Michelle EAO:EX; Bailey, Scott EAO:EX

Loiacono, Sabrina EAO:EX

From: Champion, Denise GCPE:EX
Sent: Tuesday, June 28, 2016 4:18 PM
To: Jardine, Kevin EAO:EX; Plecas, Bobbi PREM:EX; Baskerville, Shannon JTST:EX; Hughes, Bette-Jo MTIC:EX; McEwan, Tim SBRT:EX; Taylor, Sheila A SDSI:EX
Cc: Burton, Danielle PSA:EX; Kwan, Shirley JTST:EX; Chauvin, Lindsay JTST:EX; Thorkelson, Meaghan GCPE:EX; Molyneux, Jennifer MTIC:EX; Loiacono, Sabrina EAO:EX; Jang, Monica SBRT:EX; Ramsay, Launa P SDSI:EX
Subject: RE: Summary and Next Steps - CEB meeting
Attachments: BC Digital Standard - Draft Alpha.docx

Hi All.

Attached, is the draft alpha standards document shared with Danielle to assist with development of draft principles. Based on our discussion at our last meeting and our desire to ensure that our work is evidence based, I suggest our principles be informed by citizen feedback gathered over years of service design work facilitated by SID. To this end, I've asked David Hume to connect with Danielle to share that intel.

Hope that helps!

Denise

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 3:58 PM
To: Plecas, Bobbi PREM:EX; Baskerville, Shannon JTST:EX; Champion, Denise GCPE:EX; Hughes, Bette-Jo MTIC:EX; McEwan, Tim SBRT:EX; Taylor, Sheila A SDSI:EX
Cc: Burton, Danielle PSA:EX; Kwan, Shirley JTST:EX; Chauvin, Lindsay JTST:EX; Thorkelson, Meaghan GCPE:EX; Molyneux, Jennifer MTIC:EX; Loiacono, Sabrina EAO:EX; Jang, Monica SBRT:EX; Ramsay, Launa P SDSI:EX
Subject: RE: Summary and Next Steps - CEB meeting

You mentioned, Bobbi, that you would welcome submissions to inform the "principles" discussion at our next meeting. In that spirit, I've provided the relevant principles from both the US and the UK below.

You'll note that there's some significant commonality between them (which maybe suggests that ours may not look too different). Taken together, the UK's more high-level principles and the US' more tactical "playbook" provide guidance on both the "what" and "how" of service (re)design.

Speaking of which, here's a relatively short blog entry that, I think, helps to put these principles into a government delivery context: https://blog.mattedgar.com/2015/05/12/most-of-government-is-mostly-service-design-most-of-the-time-discuss/

From the UK (https://www.gov.uk/design-principles):

1. Start with needs
2. Do less
3. Design with data
4. Do the hard work to make it simple
5. Iterate. Then iterate again.
6. This is for everyone
7. Understand the context
8. Build digital services, not websites

9. Be consistent, not uniform
10. Make things open: it makes things better.

And the US (https://playbook.cio.gov/#plays_index_anchor):

1. Understand what people need
2. Address the whole experience, from start to finish
3. Make it simple and intuitive
4. Build the service using agile and iterative practices
5. Structure budgets and contract to support delivery
6. Assign one leader and hold that person accountable
7. Bring in experienced teams
8. Choose a modern technology stack
9. Deploy in a flexible hosting environment
10. Automate testing and deployments
11. Manage security and privacy through reusable processes
12. Use data to drive decisions
13. Default to open

Best rgds,
K.

From: Olson, Alisha PREM:EX **On Behalf Of** Plecas, Bobbi PREM:EX
Sent: Wednesday, June 22, 2016 10:33 AM
To: Baskerville, Shannon JTST:EX; Champion, Denise GCPE:EX; Hughes, Bette-Jo MTIC:EX; Jardine, Kevin EAO:EX; McEwan, Tim SBRT:EX; Taylor, Sheila A SDSI:EX
Cc: Burton, Danielle PSA:EX; Kwan, Shirley JTST:EX; Chauvin, Lindsay JTST:EX; Thorkelson, Meaghan GCPE:EX; Molyneux, Jennifer MTIC:EX; Loiacono, Sabrina EAO:EX; Jang, Monica SBRT:EX; Ramsay, Launa P SDSI:EX
Subject: Summary and Next Steps - CEB meeting

Good morning,

This is a quick note to follow up on last Thursday's Citizens' Experience Board meeting. I found the discussion fruitful, and feel we have a good path forward for our contribution to the October renewal of Being the Best.

I'd like to test my understanding with the group before we proceed with developing materials for our next meeting. This is what I think I heard:

- Technology is evolving rapidly, making it a challenge for us to define what service delivery will look like in 10 years.
- The compelling narrative may be best articulated through a set of principles for how citizens experience their interactions with government. These principles can then form the basis for a vision.
- Our scope is broad enough to include consideration of all services across all channels, however our initial focus is on digital services with high volume and/or high perceived value.
- The narrative we develop must:
    - Be simple – prioritize action over complex frameworks
    - Reflect the diversity of the province (e.g. rural, urban, community size)
    - Explain *why* to citizens and employees.

Deliverables
End of July:

- Build out CEB work plan
- Approve principles for inclusion in Being the Best

Fall 2016:

- Inventory of current projects: service delivery / transformation projects underway in government - including timeline to implement and who is leading (source: Service Delivery Board, GCIO)
- Inventory of current (as-is) operations: services currently being delivered – including volumes (source: SDSI and MTICS)
- Gap analysis
    - What activities must be undertaken to accelerate the transition from the current state to one where we are delivering on the principles?
    - What is the level of effort to close the gap?
    - What might we tackle first?

Immediate next steps

- Attend a meeting of the Service Delivery Board in July **(Bobbi)**
- Draft principles for discussion at July 5 meeting **(Secretariat)**
- Send Secretariat (Danielle Burton) names of potential external speakers for CEB meetings to build common knowledge base for CEB members **(all)**
- Send Secretariat previous work on principles and standards **(Denise)**
- Start planning Corporate Exec agenda item for October **(Secretariat)**

Thank you for your support on this important work.

Sincerely,

Bobbi Plecas
Associate Deputy Minister, Corporate Initiatives
Office of the Premier

Digital by Design Standard – Simplify, Modernize, Streamline

We will implement digital services using these standards to ensure a high quality experience for citizens and efficiency for government.

	Intent	UK Gov Standard	Australians	US Digital Playbook	British Columbia
1	User-centric Design	Understand user needs. Research to develop a deep knowledge of who the service users are and what that means for the design of the service.	Understand user needs. Research to develop a deep knowledge of the users and their context for the service	Understand what people need	Understand user needs. Research to develop a deep knowledge of who the service users are, their needs and what that means for the design of the service.
2	Continuous Improvement	Put a plan in place for ongoing user research and usability testing to continuously seek feedback from users to improve the service.			Put a plan in place for ongoing user research and usability testing to continuously seek feedback from users to improve the service.
3	Execution	Put in place a sustainable multidisciplinary team that can design, build and operate the service, led by a suitably skilled and senior service manager with decision-making responsibility.	Establish a sustainable multi-disciplinary team that can design, build, operate and iterate the service, led by an experienced service manager with decision-making responsibility	Bring in experienced teams	Establish a sustainable multi-disciplinary team that can design, build, operate and iterate the service, led by an experienced service manager with decision-making responsibility
4	Agile	Build the service using the agile, iterative and user-centred methods set out in the manual.	Design and build the product using the service design and delivery process, taking an agile and user-centred approach	Build the service using agile and iterative practices	Build the service using the agile, iterative and user-centred methods set out in the BC Service Design Playbook.
5	Sustainability	Build a service that can be iterated and improved on a		Structure budgets and contracts to support delivery	

		frequent basis and make sure that you have the capacity, resources and technical flexibility to do so.			
6	Feasibility	Evaluate what tools and systems will be used to build, host, operate and measure the service, and how to procure them.	Understand the data, tools and systems required to build, host, operate and measure the service and how to adopt, adapt or procure them		Evaluate what tools and systems will be built, procured or leveraged , to host, operate and measure the service, and, where possible, leverage existing investments in alignment Enterprise Business Architecture.
7	Privacy and Security	Evaluate what user data and information the digital service will be providing or storing, and address the security level, legal responsibilities, privacy issues and risks associated with the service (consulting with experts where appropriate).	Assess what information and personal user data the service will be providing, using or storing. Put in place appropriate measures to address security risks, legal responsibilities and privacy considerations	Manage security and privacy through reusable processes	Evaluate what user data and information the digital service will be providing or storing, and address the security level, legal responsibilities, privacy issues and risks associated with the service in consultation with your Ministry Information Security Officer and other experts.
8	Open	Make all new source code open and reusable, and publish it under appropriate licences (or provide a convincing explanation as to why this cannot be done for specific subsets of the source code).	Make all new source code open and reusable where appropriate	Default to open	Where appropriate make all source code and application data available through the BC Developers Exchange.
9	Open	Use open standards and common government	Incorporate open standards and common government solutions		Incorporate open standards and common

		platforms where available.	where appropriate		government solutions wherever possible.
10	Prototype	Be able to test the end-to-end service in an environment identical to that of the live version, including on all common browsers and devices, and using dummy accounts and a representative sample of users.	Show the end-to-end user experience in an environment that replicates the live version with a representative sample of users		Test a functioning prototype with real users, and use results to further enhance or refine the service.
11	Channel Options	Make a plan for the event of the digital service being taken temporarily offline.	Ensure that people who use the digital service can also use the other available channels if needed, without repetition or confusion	Address the whole experience, from start to finish.	Design the entire experience, from start to finish and across channels for those who cannot use digital options.
12	Usability	Create a service that is simple and intuitive enough that users succeed first time.	Make sure that the service is simple enough that users succeed first time unaided	Make it simple and intuitive	Create a service that is simple and intuitive enough that users successfully self-serve the first time.
13	Standardized	Build a service consistent with the user experience of the rest of GOV.UK including using the design patterns and style guide.			Build a service consistent with the user experience of the rest of GOV.BC.CA, and publish content using the corporate content management system .
14	Digital Uptake	Encourage all users to use the digital service (with assisted digital support if required), alongside an appropriate plan to phase out non-digital channels/services.	Encourage users to choose the digital service and consolidate or phase out existing alternative channels where appropriate		Proactively create awareness in the public for the service, and incent usage of the digital channel where possible.
15	Measure	Use tools for analysis that		Use data to drive decisions	Design the service to

		collect performance data. Use this data to analyse the success of the service and to translate this into features and tasks for the next phase of development.			collect data that will enable better service delivery, support business decisions and allow service owners to measure performance.
16	Manage Performance	Identify performance indicators for the service, including the 4 mandatory key performance indicators (KPIs) defined in the manual. Establish a benchmark for each metric and make a plan to enable improvements.	Measure user satisfaction, digital take-up, completion rate and cost per transaction and report performance publicly. Identify, measure and report other metrics appropriate to your service		Identify relevant KPIs and targets using the Service Analytics Framework, and measure and report on service performance publicly.
17	Transparency	Report performance data on the Performance Platform.			
18	Accountability	Test the service from beginning to end with the minister responsible for it.		Assign one leader and hold that person accountable	Assign one leader and hold that person accountable.
19	Mobile Friendly		Use responsive design methods and test that the service can be accessed on all common browsers and devices		
20	Accessible				Use modern tools and practises to ensure the service is accessible to all users regardless of their abilities, environment or digital device.
21	Technology			Choose a modern technology stack	Use modern technology stacks and cloud services (where possible) that are

					flexible and scalable to changing needs, and allow automation of testing and deployment.
22	Technology			Deploy in a flexible hosting environment	
23	Technology			Automate testing and deployments	
24	Small It				Plan projects that develop momentum and demonstrate success by incrementally building a solution.

DRAFT

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DRAFT

Page 1764 to/à Page 1766

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Page 1767 to/à Page 1770

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Tuesday, June 28, 2016 6:41 PM
To: Jardine, Kevin EAO:EX
Subject: Fw: prep for MABC/NRB meeting

Importance: High

Hi Kevin,

Please see the email below. In short FLNR are prepping for the MABC/NRB meeting and they would like our top priorities for the mining industry. Would you like me to Canvass Paul and Cory (who is acting)?

Sent from my BlackBerry 10 smartphone on the TELUS network. Please excuse typos.

From: Rousselle, Jillian FLNR:EX <Jillian.Rousselle@gov.bc.ca>
Sent: Tuesday, June 28, 2016 4:52 PM
To: French, Shawna ABR:EX; Barillaro, Scott W ENV:EX; De Champlain, Rhonda MEM:EX; Loiacono, Sabrina EAO:EX; Hodson, Georgina AGRI:EX
Subject: prep for MABC/NRB meeting

Hi,

As you know, NRB and MABC are having their annual meeting next Thursday. In preparation for this, I have been asked to coordinate a list of NRS key priorities (for the mining industry) to be discussed. The idea is that each agency would bring forward their top priorities. There is only 30 mins allocated to this discussion, so it will need to be very high-level. Can you please send me back your items by noon Thursday?

Thank you,

Jillian Rousselle
Director, Executive Operations
Deputy Minister's Office
Ministry of Forests, Lands and Natural Resource Operations
(250) 356-2700

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 6:43 PM
To: Loiacono, Sabrina EAO:EX
Subject: Re: prep for MABC/NRB meeting

Yes, please, Sabrina. Based on our meeting with MABC they indicated an interest inwant discussing EPIC, but perhaps Paul will be able to confirm.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 6:40 PM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

> Hi Kevin,
>
> Please see the email below. In short FLNR are prepping for the MABC/NRB meeting and they would like our top priorities for the mining industry. Would you like me to Canvass Paul and Cory (who is acting)?
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> Sent from my BlackBerry 10 smartphone on the TELUS network. Please excuse typos.
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> **From:** Rousselle, Jillian FLNR:EX <Jillian.Rousselle@gov.bc.ca>
> **Sent:** Tuesday, June 28, 2016 4:52 PM
> **To:** French, Shawna ABR:EX; Barillaro, Scott W ENV:EX; De Champlain, Rhonda MEM:EX; Loiacono, Sabrina EAO:EX; Hodson, Georgina AGRI:EX
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> **Jillian Rousselle**
> **Director, Executive Operations**
> **Deputy Minister's Office**
> **Ministry of Forests, Lands and Natural Resource Operations**
> **(250) 356-2700**

Loiacono, Sabrina EAO:EX

From: Waters, Cory EAO:EX
Sent: Tuesday, June 28, 2016 6:46 PM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
Subject: FNEMC presentation

Hi – wondering if there is any relevant info or update from today? I have some suggested edits from Tony F to integrate.

Cory Waters
Director, First Nations Engagement
Environmental Assessment Office
p: 250-387-0236 c: 250-812-4751

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 6:49 PM
To: Henderson, Kim N PREM:EX
Subject: Vacation

Just a quick note to let you know, Kim, t s.22
s.22

Michelle Carr will be acting and, although she will be up to speed on all things PNW, I'll assume that she won't attend our 7:30 meetings.

My office will have my contact information should something urgent emerge.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 6:51 PM
To: Waters, Cory EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
Subject: Re: FNEMC presentation

Yes, I was hoping to catch up tomorrow, Cory.

Do you have 15min some time between noon & 1:30?

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 6:45 PM, Waters, Cory EAO:EX <Cory.Waters@gov.bc.ca> wrote:

> Hi – wondering if there is any relevant info or update from today? I have some suggested edits from Tony F to integrate.
>
> Cory Waters
> Director, First Nations Engagement
> Environmental Assessment Office
> p: 250-387-0236 c: 250-812-4751

Loiacono, Sabrina EAO:EX

From: Waters, Cory EAO:EX
Sent: Tuesday, June 28, 2016 6:56 PM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: RE: FNEMC presentation
Attachments: Leadership Presentation 30June2016 FNEMC update.pptx

Tommorrow is fine. I will be at Musqueam, but we are able to break away for calls if/as needed and that is over lunch so should be flexible. I'll try you at noon. Below are FNEMC requested changes, made in updated deck attached.

From: Tony Fogarassy [s.22
Sent: Tuesday, June 28, 2016 9:36 AM
To: Waters, Cory EAO:EX
Subject: Fwd: Mount Polley SOC Call June 27th - Agenda
Importance: High

I see by your extended absence reply that you are away. Assuming it is easier for you to reply by email rather than shoe-horning in a time to speak, I offer comments regarding the PPT for the upcoming PT meeting.

Slides 1-4: OK
Slide 5:

- first item: change 'Communications Plan" to "concise work plan"
- second item: EAO engagement with stakeholders; while not part of the agreed to work plan, FNEMC requests written or verbal updates and summary report of EAO's engagement by September 1.
- second item: delete "in consultations".
- A general point which you know — coordination of the All Chiefs-Cabinet meeting necessarily involves the First Nations Leadership Council.

Slide 6: change "FN Health Authorities" to "First Nations Health Authority" and "fisheries commission" to "First Nations Fisheries Council".
Slide 7: fine, of course.

Tony

Tony Fogarassy
Mobile: s.22

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 6:51 PM
To: Waters, Cory EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
Subject: Re: FNEMC presentation

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> Director, First Nations Engagement
> Environmental Assessment Office
> p: 250-387-0236 c: 250-812-4751

Page 1778 to/à Page 1784

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 7:11 PM
To: Waters, Cory EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: Re: FNEMC presentation

Are you over at Musqueam or observing the Fan Tan process??

In any event, why don't you give me a call anytime over the lunch hour on my mobile number below.

Rgds,
K.
s.17

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 6:56 PM, Waters, Cory EAO:EX <Cory.Waters@gov.bc.ca> wrote:

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<Leadership Presentation 30June2016 FNEMC update.pptx>

Environmental Assessment Office
p: 250-387-0236 c: 250-812-4751

<Leadership Presentation 30June2016 FNEMC update.pptx>

Loiacono, Sabrina EAO:EX

From: Waters, Cory EAO:EX
Sent: Tuesday, June 28, 2016 7:13 PM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: RE: FNEMC presentation

The Fan Tan is here in Victoria, and I am participating (tough to just "observe" – it's pretty high level). I can call you. I can also come back to the office if that is preferred.

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Sent: Tuesday, June 28, 2016 7:11 PM
To: Waters, Cory EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
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> **Subject:** Fwd: Mount Polley SOC Call June 27th - Agenda
> **Importance:** High
>
> I see by your extended absence reply that you are away. Assuming it is easier for you to reply by email rather than shoe-horning in a time to speak, I offer comments regarding the PPT for the upcoming PT meeting.
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Slide 6: change "FN Health Authorities" to "First Nations Health Authority" and "fisheries commission" to "First Nations Fisheries Council".
Slide 7: fine, of course.

Tony

Tony Fogarassy
Mobile: +s.22

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 6:51 PM
To: Waters, Cory EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX
Subject: Re: FNEMC presentation

Yes, I was hoping to catch up tomorrow, Cory.

Do you have 15min some time between noon & 1:30?

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 28, 2016, at 6:45 PM, Waters, Cory EAO:EX <Cory.Waters@gov.bc.ca> wrote:

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> Cory Waters
> Director, First Nations Engagement
> Environmental Assessment Office
> p: 250-387-0236 c: 250-812-4751

<Leadership Presentation 30June2016 FNEMC update.pptx>

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 7:40 PM
To: Waters, Cory EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: Re: FNEMC presentation

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> > **From:** Tony Fogarassy [mailto s.22
> > **Sent:** Tuesday, June 28, 2016 9:36 AM
> > **To:** Waters, Cory EAO:EX
> > **Subject:** Fwd: Mount Polley SOC Call June 27th - Agenda
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<Leadership Presentation 30June2016 FNEMC update.pptx>

Loiacono, Sabrina EAO:EX

From: Waters, Cory EAO:EX
Sent: Tuesday, June 28, 2016 7:42 PM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: Re: FNEMC presentation

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Sent from my iPhone

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Sent: Tuesday, June 28, 2016 7:52 PM
To: Waters, Cory EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: Re: FNEMC presentation

Sounds good. I guess "Fort & Cook Consulting" didn't have the same panache as "Fan Tan" ;-)

Rgds,
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250-361-6753

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Loiacono, Sabrina EAO:EX

From: Henderson, Kim N PREM:EX
Sent: Tuesday, June 28, 2016 9:26 PM
To: Jardine, Kevin EAO:EX
Subject: Re: s.22

Thanks for letting me know. Get a good break!

> On Jun 28, 2016, at 6:48 PM, Jardine, Kevin EAO:EX <Kevin.Jardine@gov.bc.ca> wrote:
>
> Just a quick note to let you know, Kim, that s.22
s.22
>
> Michelle Carr will be acting and, although she will be up to speed on all things PNW, I'll assume that she won't attend our 7:30 meetings.
>
> My office will have my contact information should something urgent emerge.
>
>
>
> Rgds,
> K.
>s.17
>
> *Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

Page 1799 to/à Page 1933

Withheld pursuant to/removed as

s.3

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 8:04 AM
To: Nikolejsin, Dave MNGD:EX
Subject: s.22

s.22 , Dave. I'll have Michelle up to speed on all things PNW and Scott will continue to bird dog PNW at the technical level.

Michelle will attend the CEAA/DFO ADM meetings with Lax/Met & TESA Chiefs in Vancouver on July 14th and report directly back to you immediately afterwards.

Let me know if there's anything else I can do to ensure you're supported from our end while I'm away. It seems we're on a good path, but there's bound to be a few more twists and turns.

K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Loiacono, Sabrina EAO:EX

From: Knudsen, Mark ENV:EX
Sent: Wednesday, June 29, 2016 8:16 AM
To: Jardine, Kevin EAO:EX; Kapac de Frias, Martina E ENV:EX; Shoemaker, Wes ENV:EX; Delaney, Kirby ENV:EX
Subject: RE: Invitation de l'honorable Catherine McKenna, ministre de l'Environnement et du Changement climatique / Invitation from the Honourable Catherine McKenna, Minister of Environment and Climate Change

Confirming that the agenda is being rearranged to accommodate MMP's early departure from ELUC. We don't know the exact time yet, but it will be added onto the agenda.

From: Jardine, Kevin EAO:EX
Sent: Tuesday, June 28, 2016 2:50 PM
To: Kapac de Frias, Martina E ENV:EX; Shoemaker, Wes ENV:EX; Knudsen, Mark ENV:EX; Delaney, Kirby ENV:EX
Subject: RE: Invitation de l'honorable Catherine McKenna, ministre de l'Environnement et du Changement climatique / Invitation from the Honourable Catherine McKenna, Minister of Environment and Climate Change

Thx very much, Martina.

Mark: Can you please let me know if CabOps agrees to move the [s.12] item to the top of the agenda so that I can let staff know? Thanks.

From: Kapac de Frias, Martina E ENV:EX
Sent: Tuesday, June 28, 2016 2:05 PM
To: Shoemaker, Wes ENV:EX; Jardine, Kevin EAO:EX; Knudsen, Mark ENV:EX; Delaney, Kirby ENV:EX
Subject: Fwd: Invitation de l'honorable Catherine McKenna, ministre de l'Environnement et du Changement climatique / Invitation from the Honourable Catherine McKenna, Minister of Environment and Climate Change

Hi all,

MMP will take part in this call - no staff needed.

Kirby. We will need leave for the latter portion of ELUC pls

Also MMP will need a room to take this call pls.

MArk K - can we bump up our ELUC piece to the beginning of the agenda ([s.12] if not - Staff can present on MMPs behalf

Thanks, M,

Begin forwarded message:

> **From:** "Minister, ENV ENV:EX" <ENV.Minister@gov.bc.ca>
> **Date:** June 28, 2016 at 10:54:31 AM PDT
> **To:** "Kapac de Frias, Martina E ENV:EX" <Martina.KapacdeFrias@gov.bc.ca>

Subject: FW: Invitation de l'honorable Catherine McKenna, ministre de l'Environnement et du Changement climatique / Invitation from the Honourable Catherine McKenna, Minister of Environment and Climate Change

This one just came in this morning- it is for Thursday. Thoughts?

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To: 'AEP.Minister@gov.ab.ca'; Minister, ENV ENV:EX; 'perrytrimper@gov.nl.ca'; 'Wally_Schumann@gov.nt.ca'; 'minsdev@leg.gov.mb.ca'; 'Serge.Rousselle@gnb.ca'; 'minister.environment@novascotia.ca'; 'Minister.moecc@ontario.ca'; 'rjmitchell@gov.pe.ca'; 'ministre@mddelcc.gouv.qc.ca'; 'env.minister@gov.sk.ca'; 'wade.istchenko@gov.yk.ca'; 'jsavikataaq@gov.nu.ca'
Subject: Invitation de l'honorable Catherine McKenna, ministre de l'Environnement et du Changement climatique / Invitation from the Honourable Catherine McKenna, Minister of Environment and Climate Change

English follows

Chers collègues,

Je souhaite vous inviter à participer à une téléconférence pour échanger sur les priorités fédérales en matière de changement climatique et d'évaluation environnementale. Cette discussion servira de complément au processus du cadre pancanadien mené sous l'égide du Conseil canadien des ministres de l'environnement. J'ai eu récemment des entretiens avec quelques-uns d'entre vous. Toutefois, cette téléconférence nous permettra de discuter collectivement de nos priorités respectives concernant ces dossiers clés.

Voici les détails de la téléconférence :

Date : Jeudi 30 juin 2016
Heure : 14 h - 15 h (heure avancée de l'Est)
Numéro à composer : 613-960-7510 ou 1-877-413-4781
Code de la conférence : 6168354

Veuillez confirmer votre présence le plus tôt possible auprès de madame Nicole Ladouceur au 819-938-3654 ou *nicole.ladouceur@canada.ca*.

Un ordre du jour officiel pour cette téléconférence suivra sous peu.

Meilleures salutations,

L'honorable Catherine McKenna, C.P., députée
Ministre de l'Environnement et du Changement climatique

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Dear Colleagues,

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respective priorities on these key matters.

Details of the teleconference are as follows:

Date: Thursday, June 30, 2016
Time: 2:00-3:00 p.m. (Eastern Daylight Time)
Dial-in: s.16
Conferer

Please confirm your attendance with Ms. Nicole Ladouceur at 819-938-3654 or *nicole.ladouceur@canada.ca*, as soon as possible.

A formal agenda for this teleconference will soon follow.

Sincerely,

The Honourable Catherine McKenna, P.C., M.P.
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Excellent, thx, Mark.

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The Honourable Catherine McKenna, P.C., M.P.
Minister of Environment and Climate Change

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 8:19 AM
To: Smith,Heather [CEAA]
Cc: Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject: July 14 Mtgs

As I mentioned earlier this week, Heather, s.22 Thank-you for your offer to join you that afternoon in Vancouver to meet with the Chief Leighton and Mayor Helin and, subsequently, the TESA Chiefs. As discussed, I would like to have Michelle attend in my stead. I hope this meets with your approval.

Please let us know, also, if there's anything we can do to support a positive outcome for this meeting.

Best rgds,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

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Loiacono, Sabrina EAO:EX

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 8:20 AM
To: Paulson, Ken OGC:IN; Jardine, Kevin EAO:EX; Jeakins, Paul OGC:IN; Cousins, Autumn EAO:EX; Zimmer, Dean E OGC:IN; Edquist, Kevin FLNR:EX
Subject: ELUC for Tomorrow

Here are the general points we discussed on the call. Kevin E: Ken and I will connect with you on splitting up our presentation. We will use the presentation as a foil and speak to specific slides. Dean and Autumn to add examples.

Paul

---

s.12,s.13

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748

EAO | Environmental Assessment Office

Loiacono, Sabrina EAO:EX

From: Nikolejsin, Dave MNGD:EX
Sent: Wednesday, June 29, 2016 8:33 AM
To: Jardine, Kevin EAO:EX
Subject: RE s.22

Sounds good. Thanks Kevin

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 8:04 AM
To: Nikolejsin, Dave MNGD:EX
Subject: Vacation

s.22

Dave. I'll have Michelle up to speed on all things PNW and Scott will continue to bird dog PNW at the technical level.

Michelle will attend the CEAA/DFO ADM meetings with Lax/Met & TESA Chiefs in Vancouver on July 14th and report directly back to you immediately afterwards.

Let me know if there's anything else I can do to ensure you're supported from our end while I'm away. It seems we're on a good path, but there's bound to be a few more twists and turns.

K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

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Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 8:44 AM
To: Jardine, Kevin EAO:EX
Subject: s.22

Kevin,

Would you mind saying a few words at s.22 this afternoon. She will likely say a few words as well.

S.

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

EAO Environmental Assessment Office

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Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 8:44 AM
To: 'Michael Lambert'; Bailey, Scott EAO:EX
Subject: RE: comparison table

Thanks, Mike.

From: Michael Lambert [mailto:mlambert@pnwlng.com]
Sent: Wednesday, June 29, 2016 7:42 AM
To: Jardine, Kevin EAO:EX; Bailey, Scott EAO:EX
Subject: Fw: comparison table

Sent from my BlackBerry 10 smartphone on the TELUS network.

From: Michael Lambert <mlambert@pnwlng.com>
Sent: Tuesday, June 28, 2016 6:15 PM
To: Michael Culbert
Subject: comparison table

Here you go

The information transmitted is intended only for the addressee and may contain confidential, proprietary and/or privileged material. Any unauthorized review, distribution or other use of or the taking of any action in reliance upon this information is prohibited. If you received this in error, please contact the sender and delete or destroy this message and any copies.

Loiacono, Sabrina EAO:EX

From: Vinette, Nicole EAO:EX
Sent: Wednesday, June 29, 2016 9:08 AM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Request: Mt Polley Mine Project - Revised IN for Review
Attachments: IN_EAO_Mt_Polley_Amendment_24Jun2016.docx

Hi Kevin,

Please see the link below (or the attached version) of the revised Mt. Polley IN, which has been updated to reflect the recent re-start and the letter from MEM re: material alterations. The revised draft has been reviewed by Shelley, Paul and Cory, and I've left the track changes in the document in order to facilitate your review. If there's anything you'd like changed before I finalize it and send it to GCPE and the MO, please let me know. Thanks...

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Mt_Polley_Amendment_24Jun2016.docx

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

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Page 1947 to/à Page 1949

Withheld pursuant to/removed as

s.13

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 9:11 AM
To: Vinette, Nicole EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: RE: Request: Mt Polley Mine Project - Revised IN for Review

Thanks very much, Nicole. I've made changes in the linked version.

K.

From: Vinette, Nicole EAO:EX
Sent: Wednesday, June 29, 2016 9:08 AM
To: Jardine, Kevin EAO:EX
Cc: Craven, Paul EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Request: Mt Polley Mine Project - Revised IN for Review

Hi Kevin,

Please see the link below (or the attached version) of the revised Mt. Polley IN, which has been updated to reflect the recent re-start and the letter from MEM re: material alterations. The revised draft has been reviewed by Shelley, Paul and Cory, and I've left the track changes in the document in order to facilitate your review. If there's anything you'd like changed before I finalize it and send it to GCPE and the MO, please let me know. Thanks...

\\Level\S40002\EAO\EAO_SHARED\BRIEFING NOTES\2016\Issues notes\Spring 2016\IN_EAO_Mt_Polley_Amendment_24Jun2016.docx

~Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

EAO | Environmental Assessment Office

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 9:18 AM
To: Jardine, Kevin EAO:EX
Subject: Please call

Kevin,

Jody Shimkus (HD Mining) called looking to chat with you about the Murray River Project. She can be reached at s.22 s.22

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

EAO Environmental Assessment Office

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Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 9:19 AM
To: Loiacono, Sabrina EAO:EX
Subject: RE: Please call

Thx, Sabrina. Will do.

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 9:18 AM
To: Jardine, Kevin EAO:EX
Subject: Please call

Kevin,

Jody Shimkus (HD Mining) called looking to chat with you about the Murray River Project. She can be reached at s.22 s.22

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

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Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 9:23 AM
To: De Almeida, Steven EAO:EX
Cc: Hall, Susan M EAO:EX; Jardine, Kevin EAO:EX; Murphy, Shelley EAO:EX; Fenton, Chrystal EAO:EX
Subject: Taseko letter

Hi Steven,

The Taseko letter is good to go out this morning.

S.

Sabrina Loiacono
Manager- Executive Operations
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
250-356-7475

EAO | Environmental Assessment Office

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Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 9:44 AM
To: Loiacono, Sabrina EAO:EX
Cc: De Almeida, Steven EAO:EX; Hall, Susan M EAO:EX; Murphy, Shelley EAO:EX; Fenton, Chrystal EAO:EX
Subject: Re: Taseko letter

Terrific, thx, Sabrina. Please ensure the incoming from JP is attached also.

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

On Jun 29, 2016, at 9:22 AM, Loiacono, Sabrina EAO:EX <Sabrina.Loiacono@gov.bc.ca> wrote:

> Hi Steven,
>
> The Taseko letter is good to go out this morning.
>
> S.
>
> ***Sabrina Loiacono***
> *Manager- Executive Operations*
> *Environmental Assessment Office*
> *Ministry of Environment*
> *Government of British Columbia*
> *250-356-7475*
>
> <image001.jpg>
> This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Loiacono, Sabrina EAO:EX

From: Fenton, Chrystal EAO:EX
Sent: Wednesday, June 29, 2016 9:59 AM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: Draft Musqueam response

Hi Kevin,

Cory, Mike and Nathan would like to chat with you about the draft response below, I have sent an invite for 12:45pm today.

I:\EAO\EAO_SHARED\000Projects\Eagle Mountain-Woodfibre Gas Pipeline Project\02 First Nations\Musqueam\outgoing\301481_EAO_letter_Musqueam and Tsleil Waututh response_June 29.docx

Thank you

Chrystal Fenton | Executive Administrative Assistant
Environmental Assessment Operations, Environmental Assessment Office
Phone: 250-387-9408

EAO Environmental Assessment Office

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 10:07 AM
To: Fenton, Chrystal EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Braun, Nathan EAO:EX; Shepard, Michael EAO:EX
Subject: RE: Draft Musqueam response

Thanks, Chrystal. I've made just a couple of minor suggested edits in the linked letter, btw.

From: Fenton, Chrystal EAO:EX
Sent: Wednesday, June 29, 2016 9:59 AM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: Draft Musqueam response

Hi Kevin,

Cory, Mike and Nathan would like to chat with you about the draft response below, I have sent an invite for 12:45pm today.

I:\EAO\EAO_SHARED\000Projects\Eagle Mountain-Woodfibre Gas Pipeline Project\02 First Nations\Musqueam\outgoing\301481_EAO_letter_Musqueam and Tsleil Waututh response_June 29.docx

Thank you

Chrystal Fenton | Executive Administrative Assistant
Environmental Assessment Operations, Environmental Assessment Office
Phone: 250-387-9408

EAO Environmental Assessment Office

Loiacono, Sabrina EAO:EX

From: CSNR Intranet CSNR:EX
Sent: Wednesday, June 29, 2016 10:14 AM
To: CSNR Intranet CSNR:EX
Subject: CSNR Fast Facts - Corporate Services News for the Natural Resource Sector

CSNR *Fast Facts*

A corporate services information bulletin for the Natural Resource Sector.



June 29, 2016

Note: Fast Facts will be moving to a bi-weekly schedule through July-August. The next edition will be published on **July 13**.

Read full articles on the Fast Facts news feed

CSNR

CSNR Intranet
CSNR Fast Facts
Previous issues

THINGS YOU NEED TO DO

- Important Summertime Reminders
- Reminder to Supervisors – Retiring Expense Authorities (EA)

THINGS YOU NEED TO KNOW

- Upcoming Corporate Financial System (CFS, formerly known as CAS) Upgrade
- Pre-Authorized Debit payments for Travel Cards
- New Performance Cycle
- Potential Disruption to Canada Post: Payroll Direct Deposit

Reminder

Items of Interest

- Our Values
- TED Talks – The Formula for Happiness

Featured NRS Jobs

ADMN O 18R - Policy Analyst - MEM (Victoria)
TEO 21R - Scaling Officer - FLNR (Queen Charlotte)
POL SC 27R - Legislative Advisor - ENV (Victoria)
ADMN O 27R - Implementation Coordinator – AMENDED – MARR (Victoria)
ADMN O 24 - Analyst, Critical Incidents – MARR (Victoria)
CLK R14 - Office Manager - AGRI (Burnaby)

See this week's NRS Jobs Listings (28 new)

Need to feature an NRS job posting? Send it in!

Fast Facts @ CSNR

Next issue coming to you on July 13, 2016.

Comments or questions? Send them to CSNR Intranet.

If you experience technical difficulties with this email or any of the CSNR Fast Facts issues, please contact CSNR Intranet or phone 778-679-4451.

Kyle Yakiwchuk | Web Coordinator (Internal Communications) | Corporate Services for the Natural Resource Sector
Phone: 250.896.4748

Page 1959 to/à Page 1961

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 10:18 AM
To: Loiacono, Sabrina EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: Fwd: Mining C&E Board material
Attachments: Meeting agenda for June 29 meeting Jun24 (3).docx; ATT00001.htm; Detailed CE work plan June 24 2016 236pm.docx; ATT00002.htm; Mining CE Board TOR DRAFT -June 20.docx; ATT00003.htm; 2016-06-06c_Govt ActionPlan_Mining..pdf; ATT00004.htm

Can you please put these materials on my Sharepoint, Sabrina? I see something with yesterday's date in my Meetings folder, but when I open it shows a .msg file that I can't open.

Rgds,
K.
250-361-6753

Begin forwarded message:

> **From:** "Amann-Blake, Nathaniel MEM:EX" <Nathaniel.Amann-Blake@gov.bc.ca>
> **Date:** June 26, 2016 at 3:03:35 PM PDT
> **To:** "McKnight, Elaine L MEM:EX" <Elaine.McKnight@gov.bc.ca>, "Shoemaker, Wes ENV:EX" <Wes.Shoemaker@gov.bc.ca>, "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> **Cc:** "Boyd, Wes CSNR:EX" <Wes.Boyd@gov.bc.ca>, "Robb, Peter L. MEM:EX" <Peter.Robb@gov.bc.ca>
> **Subject: Mining C&E Board material**
>
> Elaine, Wes, Kevin,
>
> I attach materials in support of the C&E Board meeting on Wednesday:
>
> 1. Proposed agenda
> 2. Draft Terms of Reference
> 3. Detailed work plan (initial version for feedback on format and priorities)
> 4. PAC action plan (for reference of what we have said publicly)
>
> Gwenda and Jennifer at MOE and Paul and Autumn at EAO have helped develop these materials and identify potential priorities. Once we have your feedback and direction we will clarify leads and timelines for each project.
>
> I'd be happy to meet with any of you in advance of Wednesday's meeting if you'd like to walk through the material or discuss anything else.
>
> Thanks,
> Nate
>
> **Nathaniel Amann-Blake**
> Executive Lead | Secretariat

Deputy Minister Mining C&E Board

AGENDA

Date: June 29, 2016
Time: 4-5:30
Location: 1810 Blanshard St., 8th Floor, Boardroom 8003
Invited: Wes Shoemaker, Elaine McKnight, Kevin Jardine, Wes Boyd, Peter Robb, Nathaniel Amann-Blake

1. Introductions

2. Overview of board structure and secretariat team — Materials attached
    a. Draft Terms of Reference - for decision
    b. Potential external Board member
    c. Support materials
        i. Detailed work plan
        ii. PAC action plan (to be updated periodically)

3. Overall timelines
    a. Overall strategic plan to Board - Sept 2016
    b. Treasury Board sub on resourcing into budget cycle - early Fall 2016
    c. Report back to PAC – TBD expected 1 year

4. Priorities
    a. Staff engagement in developing strategic plan and resourcing (TB Sub)
    b. Joint website for oversight of mines
    c. Examine potential for joint investigative agency (e.g., COS for MEM and EAO)
    d. Securities review

5. Public Accounts Committee Follow-up items
    a. MOE (water discharge levels – Mount Polley permitting) - submitted
    b. MEM (South Island Aggregates letter)
    c. Terms of Reference for Mining C&E Board

Mining C&E Board - Detailed Work Plan

Ref. Number	Project	Due date	Lead	Priority	Key tasks/Notes	Status
1.0	**(OAG Rec. 1.0) We recommend that the Government of British Columbia create an integrated and independent compliance and enforcement unit for mining activities, with a mandate to ensure the protection of the environment.**					
1.0 a)	Establish DM C&E Board	Establish Board by Aug 1 (OAG)	Nathaniel (MEM)	High	• first meeting scheduled June 29 • DRAFT terms of reference developed for DM review	On track
1.0 b)	Explore Independent investigation service for MEM-EAO-MOE	Dec 31 - TBD		High	• Assess options of using Conservation Officer Service (COS) for prosecutorial investigations under *Mines Act*, *Environmental Assessment Act* and *Environmental Management Act*.	Not started
1.1	**(OAG Rec. 1.1) Develop a strategic plan that would detail the activities of an integrated and coordinated regulatory approach, and the necessary capacity, tools, training and expertise required to achieve its goals and objectives.**					
1.1 a)	Strategic Plan	Due to C&E Board September 2016		High	• Strategic planning session planned for July • ENV, EAO and MEM will work together to ensure they are on the same page in preparation for developing a strategic plan.	Not started

Ref. Number	Project	Due date	Lead	Priority	Key tasks/Notes	Status
1.1 b)	Treasury Board submission (joint resource ask)	August 2016	Brad (MEM)	High	s.12	Started
1.2	**(OAG Rec. 1.2) Ensure both historical and current permit requirements are written with enforceable language.**					
1.2 a)	Enforceable permit language policy (joint MEM, MOE, EAO)	November 2016		High	• MOE has undertaken permit condition review (mining) • MEM to review permit conditions • Agencies to work together on review • Require legal assistance to confirm enforceable conditions	Started
1.3	**(OAG Rec. 1.3) Ensure the reclamation liability estimate is accurate and that the security held by government is sufficient to cover potential costs.**					
1.3 a)	Update policy for security/bonding (amounts and timing)	February 2017		Moderate	• Stantec contracted to undertake cross jurisdictional scan of reclamation security • Possible insurance requirements	Started
1.4	**(OAG Rec. 1.4) Review funding mechanisms to ensure taxpayers are safeguarded from the costs of an environmental disaster.**					

Ref. Number	Project	Due date	Lead	Priority	Key tasks/Notes	Status
1.4 a)	Review of taxpayer safeguards (environmental disaster)	March 2017			• ENV developed a new provincial spills regime. • Applicability to mines to be assessed/confirmed • Insurance requirements under *Mines Act* (see above)	Started

s.12

1.6	**(OAG Rec. 1.6) Government adopt a cost recovery model for permitting and compliance verification activities that is consistent across all ministries in the natural resource sector.**					
1.6 a)	Develop cost recovery model for compliance verification activities	March 2017		Low	• Ministry of Environment will examine the cost recovery of fees for permitting and verification activities and make recommendations. • EAO and MEM have inspection fees	
1.7	**(OAG Rec. 1.7) Government publically disclose its rationale for granting a permit under section 137 of the *Environmental Management Act*. Specifically, information should include how factors such as economic, environmental, and social attributes were considered in the determination of public interest.**					

Ref. Number	Project	Due date	Lead	Priority	Key tasks/Notes	Status
1.7 a)	Explore potential of releasing backgrounder when s.137 of EMA is used	N/A	N/A	N/A	• Cannot compel Cabinet to disclose the nature of their discussions (Cabinet confidentiality) • Other transparency measures may partially address this recommendation	
1.8	**(OAG Rec. 1.8) Government develop clear and comprehensive reclamation guidance for industry.**					
1.8 a)	Develop reclamation guidance (linked to 1.3 a)	February 2017		Moderate	• Work will be enhanced through MEM participation on the British Columbia Technical and Research Committee on Reclamation • For submissions in 2016 MEM has updated the information required in its annual reclamation reports	On track
1.9	**(OAG Rec. 1.9) Government create effective incentives to promote environmentally responsible behavior by industry.**					
1.9 a)	TBD	March 2017		Moderate	• ENV will consider incentives as part of the TBS	
1.10	**(OAG Rec. 1.10) Government develop a risk-based approach to compliance verification activities, where frequency of inspections are based on risks, such as industry's non-compliance record, industry's financial state, and industry's activities (e.g., expansion), as well as risks related to seasonal variations.**					

Ref. Number	Project	Due date	Lead	Priority	Key tasks/Notes	Status
1.10 a)	Formal risk based approach (joint MEM, MOE, EAO)	March 2017		Moderate	• Agencies already using risk based approach • ENV, MEM and EAO need to have a risk ranking and assessment discussion to determine where alignment is and isn't on assessing risk.	Not Started
1.10 b)	Inter-agency coordination of inspection and oversight	November 2016			• Major projects C&E Coordination Committee – Draft TOR • Coordination of non-major projects (TBD)	Started
1.11	**(OAG Rec. 1.11) Government systematically monitor and record compliance with high-risk mine permit requirements.**					
1.11 a)	Enhanced TSF monitoring program	November 2016		High	• Linked to OAG recommendation 1.10	
1.12	**(OAG Rec. 1.12)** **Government establish policies and procedures for the use and oversight of qualified professionals (QP) across the natural resources sector. These policies and procedures should have the following:** • **guidance for staff that outlines the specific nature and amount of oversight expected of a QP's work** • **guidance for staff as to expected timeframe for review and response to QP reports** • **updated guidance for staff for recognizing and responding to misconduct by a QP** • **controls in place to ensure that there is no undue influence on the QPs by industry** **controls in place to ensure that recommendations by QPs are adhered to**					
1.12 a)	Health, Safety and Reclamation Code for Mines changes	September 2017	Nathaniel (MEM)	High	• Changes are being considered as part of Code Review • Define role and responsibility of engineer of record	On track
1.12 b)	MOE Qualified Persons audit	March 2017	(MOE)	Moderate	• Ministry of Environment EPD ROB plans to conduct a QP audit this fiscal.	

Ref. Number	Project	Due date	Lead	Priority	Key tasks/Notes	Status
1.12 c)	FLNRO Qualified Persons project	March 2017		Low	• A Qualified Persons Cross-Ministry Working Group (QP working group) is looking at use of QPs with view to develop a common framework	MEM to follow up on key deliverables out of QP working group
1.13	**(OAG Rec. 1.13) Government adopt appropriate standards, review mine designs to ensure that they meet these standards, and ensure that mines, as constructed, reflect the approved design and standards.**					
1.13 a)	Changes to Health, Safety and Reclamation Code for Mines changes	September 2017	Nathaniel (MEM)	High	• Changes will clarify standards for tailings storage facilities	On track
1.13 b)	Enhance transparency to clearly demonstrate MEM's review (e.g., review of mine design) – linked to public reporting (OAG rec 1.16)	March 2017		Low	• MEM technical staff reviews all permit and amendment applications.	Started
1.13 c)	Enhance clarity between environmental assessment and permitting	March 2017		Moderate	• Workshop planned for October 2016	Started
1.14	**(OAG Rec. 1.14) Government develop policies, procedures and enforcement tools for responding to non-compliances when industry does not meet government's specified timeline.**					
1.14 a)	Administrative monetary penalties under *Mines Act*	January 2017	Brad (MEM)	Moderate	• Intentions paper • Consultation/development • Drafting	On track
1.15	**(OAG Rec. 1.15) Government regularly evaluate the effectiveness of its compliance promotion, compliance verification, and enforcement activities and tools, and make changes as needed to ensure continuous improvement.**					

Ref. Number	Project	Due date	Lead	Priority	Key tasks/Notes	Status
1.15 a)	Will be addressed through strategic C&E plan under 1.1 a) and reporting cycle under 1.16 a)	March 2017		Moderate		Not Started
1.16	**(OAG Rec. 1.16)** **Government report publicly the:** • **results and trends of all mining compliance and enforcement activities** • **effectiveness of compliance and enforcement activities in reducing risks and protecting the environment** • **estimated liability and the security held for each mine**					
1.16 a)	Establish cycle of reports, trends, annual report of performance measures (integrated with strategic plan, CIM annual reports and service plan	TBD		Moderate		Not Started
1.16 b)	Integrated public website	TBD	Nathaniel (MEM)	High	• Create one-window access to all C&E activities in relation to particular mines, and also submissions, applications, and government reviews/responses. • Potential issues include disclosure of copyrighted material (MOE to seek advice)	Not started
1.17	**PAC Follow-up**					
1.17 a)	MEM	June 2016	Brad (MEM)		• Terms of Reference for C&E Board • Summary of SIA responses	On track

Ref. Number	Project	Due date	Lead	Priority	Key tasks/Notes	Status
1.17 b)	MOE	June 2016	MOE		• Water discharge levels at Mt Polley	Completed

Mining Compliance and Enforcement Board
Terms of Reference

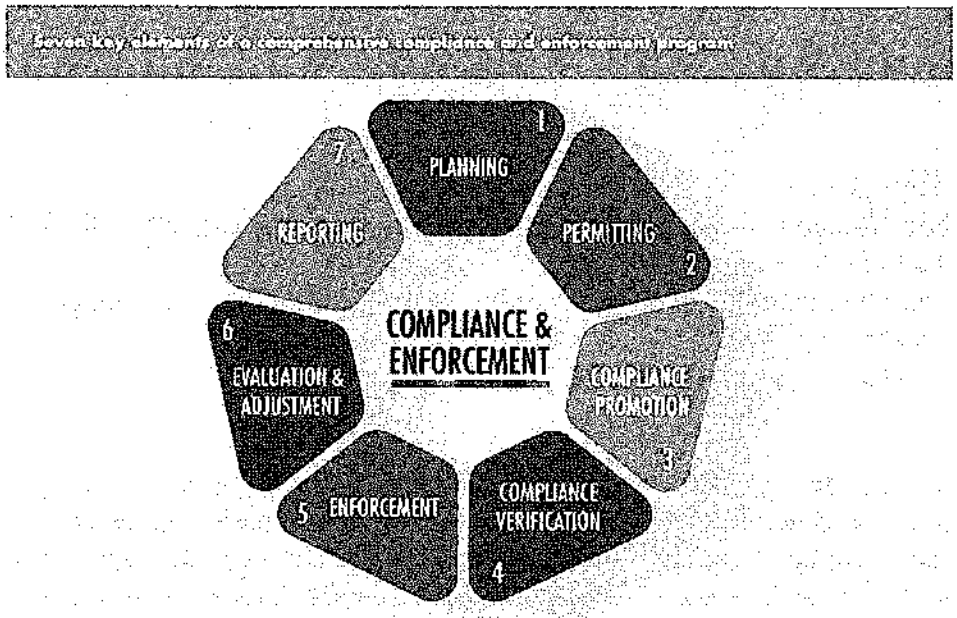
Purpose

The Mining Compliance and Enforcement Board (the Board) oversees compliance and enforcement planning across British Columbia in all aspects of mineral exploration and development with a key focus on environmental protection. This includes:

- Overseeing strategic improvements that enhance compliance and enforcement effectiveness through integration and coordination of planning, training, policies, procedures, tools, evaluation and public reporting for mines in British Columbia.
- Mapping out proactive annual activities that:
  - support continuous learning, evaluation and improvement,
  - are centered on a risk-based approach, and
  - are informed by key developments in other jurisdictions to ensure BC is a leader in the regulatory oversight of mining.

Scope

- The Board will provide focus, direction and accountability to ensure necessary improvements are made. The goal will be to regularize the changes and integrate into normal operations within 2 years or at the direction of the Board.
- The Board provides guidance and oversight to all compliance and enforcement activity for mines in British Columbia (including but not limited to the *Mines Act*, the *Environmental Management Act* and the *Environmental Assessment Act*).
- The Board ensures that mining compliance and enforcement activities across the sector are measured against seven key elements:



Source: Office of the Auditor General of British Columbia, adapted from the Organization for Economic Co-Operation and Development's *Ensuring Environmental Compliance: Trends and Good Practices* and MOE's *Compliance Management Framework*

Deliverables

Responding to all OAG recommendations:

- Reporting to Public Accounts Committee on implementation.

Strategic Plan for Mining Compliance and Enforcement:

- Rolling two year plan detailing the activities of an integrated and coordinated regulatory approach. Identifies the necessary capacity, tools, training and expertise required to achieve goals and objectives. This may include opportunities for First Nations and industry input.

Annual Operational Plan for Mining Compliance and Enforcement:

- Annual work plan highlighting operational objectives, deployment of resources, budget and key milestones.

Reporting:

- Annual tracking and public reporting of C&E activities and initiatives.

Membership

The Board is comprised of representatives from the:

- Ministry of Energy and Mines (Deputy Minister)
- Ministry of Environment (Deputy Minister)
- Environmental Assessment Office (Associate Deputy Minister)
- The Executive Lead C&E (Secretariat)

Chair

- Deputy Minister, Ministry of Energy and Mines

Meetings

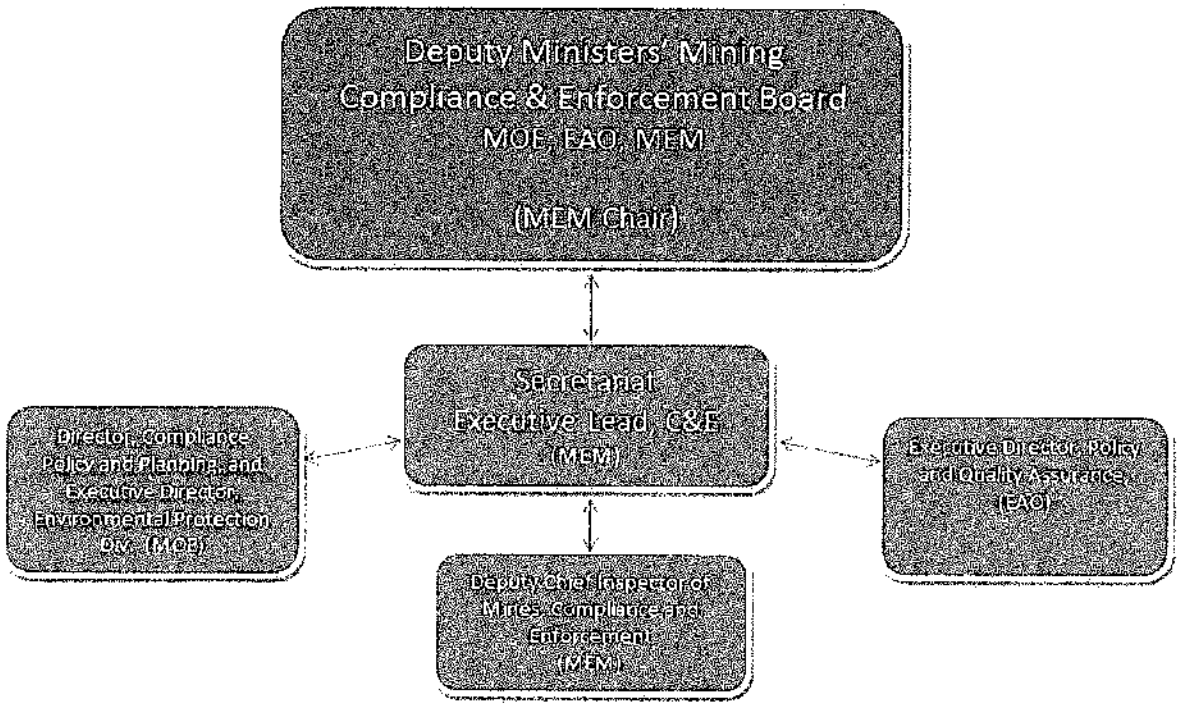
- The Mining C&E Board meets monthly or as needed.
- Standing agenda will include ministry reporting, priority concerns, 30-60-90 of C&E issues and items needing direction.
- There will be an annual cycle of planning and reporting with meetings:
    - February - *to approve strategic and operational plans*
    - October - *for an interim review*

Secretariat

- Where possible, agenda, and background documents will be provided by the Executive Lead to all Board members at least 48 hours prior to meeting.
- The Executive Lead C&E works with all the agencies to provide secretariat function for the Board. MOE Strategic Policy Branch and MOE Environmental Protection Division Regional Operations Branch, EAO Quality Assurance, and the Deputy Chief Inspector of Mines C&E are responsible for C&E within their respective agencies.

- Representatives supporting the secretariat will ensure ADM support and briefings where needed. The secretariat may also use an existing ADM committee (e.g. MMPO project Board or NRS ADMs) where cross agency information or direction is needed.

MINING COMPLIANCE AND ENFORCEMENT



Background

In May 2016, the Office of the Auditor General (OAG) released the report, An Audit of Compliance and Enforcement of the Mining Sector.

In the published OAG report, Government committed to establish a Mining Compliance and Enforcement Board to oversee an integrated and co-ordinated regulatory approach to mining in the province of B.C (see Figure 1 attached). The Board does not impact the existing powers or duties of any individual or agency engaged in the regulation of mining in BC, including any individuals charged with making statutory decisions under any applicable enactment.

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 10:19 AM
To: Jardine, Kevin EAO:EX
Subject: RE: Mining C&E Board material

Will do.

Kind regards,
S.

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 10:18 AM
To: Loiacono, Sabrina EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: Fwd: Mining C&E Board material

Can you please put these materials on my Sharepoint, Sabrina? I see something with yesterday's date in my Meetings folder, but when I open it shows a .msg file that I can't open.

Rgds,
K.
250-361-6753

Begin forwarded message:

> **From:** "Amann-Blake, Nathaniel MEM:EX" <Nathaniel.Amann-Blake@gov.bc.ca>
> **Date:** June 26, 2016 at 3:03:35 PM PDT
> **To:** "McKnight, Elaine L MEM:EX" <Elaine.McKnight@gov.bc.ca>, "Shoemaker, Wes ENV:EX" <Wes.Shoemaker@gov.bc.ca>, "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> **Cc:** "Boyd, Wes CSNR:EX" <Wes.Boyd@gov.bc.ca>, "Robb, Peter L. MEM:EX" <Peter.Robb@gov.bc.ca>
> **Subject: Mining C&E Board material**
>
> Elaine, Wes, Kevin,
>
> I attach materials in support of the C&E Board meeting on Wednesday:
>
> 1. Proposed agenda
> 2. Draft Terms of Reference
> 3. Detailed work plan (initial version for feedback on format and priorities)
> 4. PAC action plan (for reference of what we have said publicly)
>
> Gwenda and Jennifer at MOE and Paul and Autumn at EAO have helped develop these materials and identify potential priorities. Once we have your feedback and direction we will clarify leads and timelines for each project.
>
> I'd be happy to meet with any of you in advance of Wednesday's meeting if you'd like to walk through the material or discuss anything else.

Thanks,
Nate

Nathaniel Amann-Blake
Executive Lead | Secretariat
Mining Compliance and Enforcement Deputy Ministers Board
BC Ministry of Energy and Mines

Loiacono, Sabrina EAO:EX

From:	De Almeida, Steven EAO:EX
Sent:	Wednesday, June 29, 2016 10:20 AM
To:	'RHallbauer@TasekoMines.com'
Cc:	Bennett, Bill MEM:EX; Polak, Mary ENV:EX; Rustad, John ABR:EX; Barnett.MLA, Donna LASS:EX; Henderson, Kim N PREM:EX; McKnight, Elaine L MEM:EX; Caul, Doug D ABR:EX; Jardine, Kevin EAO:EX
Subject:	Prosperity Gold-Copper Project
Attachments:	Response_13May2016 Taseko letter_23June2016_FINAL.pdf; 2016 06 10 JP Laplante to EAO re Prosperity Amendment Final.pdf

Dear Mr. Hallbauer,

Attached is a letter from Shelley Murphy, Executive Project Director.

Steven De Almeida | Administrative Assistant | Environmental Assessment Office | Telephone 250 387-2563

BRITISH COLUMBIA

File: 30200-25/PROS-19

Reference: 300971

June 29, 2016

SENT VIA EMAIL

Russell E. Hallbauer
President & CEO
Taseko Mines Limited
15th Floor, 1040 West Georgia Street
Vancouver BC V6E 4H1
RHallbauer@TasekoMines.com

Dear Mr. Hallbauer:

I have been asked to respond directly to the matters in your May 13, 2016, letter to the Honourable Christy Clark, Premier, relating to the Environmental Assessment Office (EAO). I understand that the Ministry of Justice has responded to the other matters you raise in that letter.

In your letter you raise concerns about the amount of time taken for EAO to review Taseko Mines Limited's (Taseko) application to amend its Environmental Assessment Certificate (Certificate) for the Prosperity Gold-Copper Project (Prosperity) and you express Taseko's desire that EAO complete its review of Taseko's application.

As you may be aware, after considerable consultation with Taseko and the Tsilhqot'in National Government (TNG), EAO established procedures for the review of the proposed amendment in November 2012. Under those procedures, EAO would rely principally on the information from the federal review panel process for EAO's review of the proposed amendment. The review of the amendment would, therefore, not be completed until after the federal decision in February 2014.

...2

Environmental Assessment Office

Mailing Address:
PO Box 9426 Stn Prov Govt
Victoria BC V8W 9V1

Location:
1st & 2nd Fl – 836 Yates Street
Victoria BC V8W 1L8

Following the federal decision, EAO did not hear from Taseko until early April 2014, when we were advised that Taseko was "still regrouping" on the new Prosperity project and that Taseko would be in touch with EAO when Taseko was "a bit more organized".

To my knowledge, EAO did not hear further from Taseko until a letter dated June 11, 2014. That letter was in response to EAO's letter of June 6, 2014, advising Taseko of the upcoming January 14, 2015, expiry date of its Certificate and reminding Taseko of the opportunity to apply for an extension to its Certificate. In the June 11, 2014, letter, Taseko requested a five-year extension to its Certificate and also requested EAO complete its review of the amendment application.

EAO responded in its correspondence dated July 14, 2014, and October 15, 2014, that EAO would not review the proposed amendment at that time, for reasons clearly articulated in those letters. EAO stated that if and when the Certificate extension is granted, EAO would be willing to consider the factors relevant at that time to determine the appropriate next steps with respect to the assessment of the proposed amendment.

Following the extension being granted on January 13, 2015, EAO did not receive any communication from Taseko from the date the extension was granted until your letter of May 13, 2016. Given the environmental assessment process is proponent-driven, I interpreted the absence of communications on this matter as indicating that Taseko was not pursing the amendment at this time. On May 5, 2016, I telephoned Ms. Katherine Gizikoff, Director, Environment and Governmental Affairs for Taseko, to get an update on the status of Taseko's projects in the environmental assessment process (the proposed Aley Niobium Project and the Prosperity amendment application). She indicated she was no longer working on Prosperity and could not advise on its status.

In light of your recent letter, EAO is prepared to proceed with the amendment process. Consistent with my letter dated July 14, 2014, EAO will now reassess the factors EAO noted in that correspondence, as well as other relevant factors to determine the appropriate next steps for the review of this application.

On initial review, EAO will need to consider amending its procedures to address the following matters:

- As noted in my letters of July 14, 2014, and October 15, 2014, EAO will need to reconsider its procedures and any additional information EAO might require in light of Taseko's outstanding legal challenge in federal court regarding the federal panel process.

...3

- As noted in EAO's Certificate Extension Report of December 2014, and the Reasons for Minister's Decision dated January 13, 2015, EAO's review of the proposed amendment will also need to consider whether to recommend to the Minister potential changes to, or new, Certificate conditions to address the new information or material changes since the Certificate was issued.
- The amendment review will need to address EAO's requirement that all proponents for all projects proposing new tailings dams conduct a tailings alternatives assessment that considers technology, siting and water balance. I understand Taseko currently is working on this assessment.
- The Province's commitment in section 12.42 of the Nenqay Deni Accord relating to environmental assessments.

To set out the appropriate next steps, as well as help identifying any additional information needs, EAO requires the following information from Taseko:

- A description of the status of the federal court process and anticipated timing for a decision from the federal court. If a federal court decision is expected soon, it may be prudent to wait on setting new procedures until the judgement is rendered and Taseko has determined how it accordingly wants to proceed.
- Taseko's perspective on whether and what limitations there may be on the use of the information and materials from the federal panel process in light of Taseko's challenge in federal court related to the federal panel report and process. Please note that I may canvass the views of other parties on this question as well.
- An overview of Taseko's approach, the options being considered, and the status and timing for Taseko's tailings alternatives assessment. Taseko's February 2016 financial report notes that Taseko is evaluating its current project design and alternatives, and that the assessment will be consistent with the province's requirements (which are available at: http://www.eao.gov.bc.ca/files/guidance/Proponent_Guidance-Tailings_Management.pdf); and
- A description of any other studies or assessments that may be relevant to the review of the proposed amendment that have been undertaken or are underway since the federal panel concluded its review. For example, I note that in the February 2016 financial report, Taseko states that it has ongoing monitoring of key groundwater baseline conditions. Will that information be available for or helpful to the amendment review?

I also wanted to take this opportunity to make you aware of discussions EAO has had with TNG regarding Taseko's request to proceed with the review of the amendment application. EAO has made TNG aware Taseko's request, and discussed EAO's views

...4

on its obligations to review the amendment application on June 8 and June 16, 2016. TNG set out its concerns in writing in a letter dated June 10, 2016, which is attached for your reference. I will also forward to you EAO's response to that letter once it is provided to TNG. EAO has shared with TNG Taseko's letter dated May13, 2016, and the June 14, 2016, response from the office of the Assistant Deputy Attorney General at the Ministry of Justice. EAO will also provide this letter to TNG.

In closing, I want to speak to your comment that this is an "extremely simple amendment to grant", because in Taseko's view the revised project design reduces environmental impacts and increases economic benefits. I appreciate that Taseko holds this view. However, EAO conducts reviews of proposed amendments so that it can form its own view of the potential effects of the proposed changes. In doing so, EAO needs to obtain the appropriate information, seek technical advice, and fulfil the Crown's constitutional obligation to meaningfully consult and accommodate, as appropriate, potentially affected Aboriginal Groups.

I look forward to working with your assigned company representative, to ensure that EAO has the information it requires for the review of the amendment application. Please let me know at your earliest convenience who you have assigned to be EAO's main contact at Taseko for the review. I can be reached at 250 387-1447 or by email at Shelley.Murphy@gov.bc.ca. Alternatively, you can contact Steve McNaughton, Project Assessment Officer, at 250 387-5838 or by email at Steve.McNaughton@gov.bc.ca.

Yours truly,

Shelley Murphy
Executive Project Director

Enclosure

cc: Honourable Bill Bennett, Minister of Energy & Mines
Bill.Bennett@gov.bc.ca

Honourable Mary Polak, Minister of Environment
Mary.Polak@gov.bc.ca

Honourable John Rustad, Minister of Aboriginal Relations and Reconciliation
John.Rustad@gov.bc.ca

Donna Barnett, MLA, Cariboo-Chilcotin
donna.barnett.mla@leg.bc.ca

...5

Kim Henderson, Deputy Minister to the Premier
Kim.Henderson@gov.bc.ca

Elaine McKnight, Deputy Minister, Ministry of Energy & Mines
Elaine.McKnight@gov.bc.ca

Doug Caul, Deputy Minister, Ministry of Aboriginal Relations and Reconciliation
Doug.Caul@gov.bc.ca

Kevin Jardine, Associate Deputy Minister, Environmental Assessment Office
Kevin.Jardine@gov.bc.ca

Page 1984 to/à Page 1991

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Library, J.T. Fyles Natural Resources ENV:EX
Sent: Wednesday, June 29, 2016 10:29 AM
Subject: New addition at the J.T. Fyles Natural Resources Library

I am delighted to announce that Jennifer (Jen) Peters has joined the Ministry of Environment as of June 13, 2016. Jen is the new Library Technician in the J.T. Fyles Natural Resources Library.

s.22

Please drop by the library and introduce yourself to Jen.

Jennifer Lu | Library Administrator | J.T. Fyles Natural Resources Library
Ministry of Environment
PO Box 9321, Stn. Prov. Gov't., Victoria, BC V8W 9N3
t 250-952-0660 | f 250-952-0581

Please note: Access for non-ministry clients is by appointment only on Tuesdays, Wednesdays & Thursdays.

Loiacono, Sabrina EAO:EX

From: Weaver, Colleen EAO:EX
Sent: Wednesday, June 29, 2016 10:41 AM
To: Jardine, Kevin EAO:EX
Subject: s.22
Attachments:

Hi Kevin,

s.22

[redacted] has almost completed her six months' probation (July [redacted]). I have attached a template letter for you to add to and then if you could send me back a completed and signed copy that would be wonderful. You can give the letter to Sabrina yourself but I just need a copy for her employee file and to send into PSA.

Thanks so much and please let me know if you have any questions.

Colleen Weaver, Business Services Coordinator
Ph: (250) 387-9400 | Email: Colleen.Weaver@gov.bc.ca

EAO Environmental Assessment Office

Please consider the environment before printing this message

Page 1994

Withheld pursuant to/removed as

s.22

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 11:39 AM
To: Carter, Rumon EAO:EX
Subject: Sorry...

...in my office whenever you're ready.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

Loiacono, Sabrina EAO:EX

From: Waters, Cory EAO:EX
Sent: Wednesday, June 29, 2016 12:07 PM
To: Jardine, Kevin EAO:EX; Braun, Nathan EAO:EX; Shepard, Michael EAO:EX
Cc: Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Running late

Waiting for an appropriate time to slip out. Now is not the time.

Sent from my iPhone

Loiacono, Sabrina EAO:EX

From: Province.of.British.Columbia@guinness.cas.gov.bc.ca
Sent: Wednesday, June 29, 2016 12:13 PM
To: Jardine, Kevin EAO:EX
Subject: DIRECT DEPOSIT CONFIRMATION

PLEASE DO NOT RESPOND TO THIS EMAIL

****

The Government of BC will make the following payment to you via Electronic Funds Transfer on the deposit date below.

Deposit Date: Jul 05, 2016
Deposit Amount: $385.11
Supplier Name: JARDINE, KEVIN D
Supplier Number: s.17
Supplier Location: I
Issuing Ministry: EN

Payment Number: s.17

****

---------- Invoice 1 ----------

Invoice Number: ER22157064
Invoice Date: May 26 2016
Invoice Amount: 362.36

Description: Travel Expense Reimbursement
Meetings in Cranbrook

---------- Invoice 2 ----------

Invoice Number: ER22160006
Invoice Date: Jun 06 2016
Invoice Amount: 22.75

Description: Travel Expense Reimbursement
Per Diem while attending Caucus

For payment inquiries, please contact your ministry accounts payable office.

Note: Using courier font to view this message may improve alignment.

********** End of Message **********

Loiacono, Sabrina EAO:EX

From: Waters, Cory EAO:EX
Sent: Wednesday, June 29, 2016 12:19 PM
To: Jardine, Kevin EAO:EX; Braun, Nathan EAO:EX; Shepard, Michael EAO:EX
Cc: Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject: Re: Running late

Coming now

Sent from my iPhone

> On Jun 29, 2016, at 12:06 PM, Waters, Cory EAO:EX <Cory.Waters@gov.bc.ca> wrote:
>
> Waiting for an appropriate time to slip out. Now is not the time.
>
> Sent from my iPhone

Loiacono, Sabrina EAO:EX

From: Neilson, Kirsten EAO:EX
Sent: Wednesday, June 29, 2016 1:56 PM
To: Jardine, Kevin EAO:EX
Subject: FW: Blackwater CSFN/KJ meet on Thursday

Hi Kevin,

Could you please see Tavis' note below and please advise if you would like Scott to attend by phone or in person.

Thank you,
Kirsten

From: McDonald, Tavis EAO:EX
Sent: Wednesday, June 29, 2016 1:50 PM
To: Neilson, Kirsten EAO:EX; Loiacono, Sabrina EAO:EX
Cc: Waters, Cory EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: Blackwater CSFN/KJ meet on Thursday

Hi Kirsten,
I just heard back from Scott and they're good with the 230-245 time. Can you please send out a meeting request with call numbers? Scott has asked to be there in person if possible, but leave that with Kevin to decide. I am off tomorrow and out of cell range so will not be able to join but Cory and Scott should be on line.

Invite should go out to the following:
Representatives for CSFN

Gowlings	Smith, Scott	604-891-2764	Scott.Smith@gowlings.com
Nadleh Whut'en First Nation	Ketlo, Beverly	250-690-7211	bketlo@nadleh.ca
Saik'uz First Nation	Thomas, Jackie	250-567-9293	jackie.thomas@saikuz.com
Stellat'en First Nation	Luggi, David	s.22	dluggi@netbistro.com

EAO Representation

- Kevin Jardine
- Cory Waters
- Steve McNaughton

Meeting objective- Discuss concerns with the Blackwater EA review time frame.

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871

EAO | Environmental Assessment Office

From: McDonald, Tavis EAO:EX
Sent: Tuesday, June 28, 2016 8:51 AM

To: Neilson, Kirsten EAO:EX; Loiacono, Sabrina EAO:EX
Cc: Waters, Cory EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: Blackwater CSFN/KJ meet on Thursday

Ok, Let's put a hold 230-245 for now. I will suggest those times and see what the response is.

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871

EAO | Environmental Assessment Office

From: Neilson, Kirsten EAO:EX
Sent: Tuesday, June 28, 2016 8:50 AM
To: McDonald, Tavis EAO:EX; Loiacono, Sabrina EAO:EX
Cc: Waters, Cory EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: Blackwater CSFN/KJ meet on Thursday

Hi Tavis,

Kevin is in Vancouver in the morning. He has time in the afternoon at 2pm or between 2:30-4:30.

Kirsten

From: McDonald, Tavis EAO:EX
Sent: Tuesday, June 28, 2016 8:43 AM
To: Loiacono, Sabrina EAO:EX
Cc: Neilson, Kirsten EAO:EX; Waters, Cory EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: Blackwater CSFN/KJ meet on Thursday

Yes please. Early morning would work best and just a conf call for 15min. I won't be able to attend as on leave but Cory should to support the discussion.
T

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871

EAO | Environmental Assessment Office

From: Loiacono, Sabrina EAO:EX
Sent: Tuesday, June 28, 2016 8:41 AM
To: McDonald, Tavis EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: RE: Blackwater CSFN/KJ meet on Thursday

Hey Tavis,

Thursday just opened up. Did you still want to schedule some time with Kevin?

Kind regards,
S.

From: McDonald, Tavis EAO:EX
Sent: Monday, June 27, 2016 10:57 AM
To: Loiacono, Sabrina EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: RE: Blackwater CSFN/KJ meet on Thursday

I think it's the only time CSFN were available. If it doesn't work no worries. We can also do the messaging by email and then an opportunity to further discuss next week.
T

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871

EAO | Environmental Assessment Office

From: Loiacono, Sabrina EAO:EX
Sent: Monday, June 27, 2016 10:56 AM
To: McDonald, Tavis EAO:EX
Cc: Neilson, Kirsten EAO:EX
Subject: RE: Blackwater CSFN/KJ meet on Thursday

Hi Tavis,

Does it have to Thursday?

Kind regards,
S.

From: McDonald, Tavis EAO:EX
Sent: Monday, June 27, 2016 10:15 AM
To: Loiacono, Sabrina EAO:EX
Subject: Blackwater CSFN/KJ meet on Thursday

Hi Sabina,
Can you see if there's time in KJ calendar for a 15min conf call on Thursday?
T

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871

Loiacono, Sabrina EAO:EX

From: Cousins, Autumn EAO:EX
Sent: Wednesday, June 29, 2016 1:56 PM
To: Craven, Paul EAO:EX; Paulson, Ken OGC:IN; Jardine, Kevin EAO:EX; Jeakins, Paul OGC:IN; Zimmer, Dean E OGC:IN; Edquist, Kevin FLNR:EX
Subject: RE: ELUC for Tomorrow

As requested this morning, please find below some bullets. Thanks Dean for drafting!

s.12,s.13

From: Craven, Paul EAO:EX
Sent: Wednesday, June 29, 2016 8:20 AM
To: Paulson, Ken OGC:IN; Jardine, Kevin EAO:EX; Jeakins, Paul OGC:IN; Cousins, Autumn EAO:EX; Zimmer, Dean E OGC:IN; Edquist, Kevin FLNR:EX
Subject: ELUC for Tomorrow

Here are the general points we discussed on the call. Kevin E: Ken and I will connect with you on splitting up our presentation. We will use the presentation as a foil and speak to specific slides. Dean and Autumn to add examples.

Paul

- s.12,s.13
-
-

•

•
•
•

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748

EAO Environmental Assessment Office

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 1:59 PM
To: Neilson, Kirsten EAO:EX
Subject: RE: Blackwater CSFN/KJ meet on Thursday

Can you please check Cory's availability first, Kirsten? I think he might be in a Mt. Polley meeting in Vancouver during that time.

From: Neilson, Kirsten EAO:EX
Sent: Wednesday, June 29, 2016 1:56 PM
To: Jardine, Kevin EAO:EX
Subject: FW: Blackwater CSFN/KJ meet on Thursday

Hi Kevin,

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Thank you,
Kirsten

From: McDonald, Tavis EAO:EX
Sent: Wednesday, June 29, 2016 1:50 PM
To: Neilson, Kirsten EAO:EX; Loiacono, Sabrina EAO:EX
Cc: Waters, Cory EAO:EX; McNaughton, Steve EAO:EX
Subject: RE: Blackwater CSFN/KJ meet on Thursday

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Nadleh Whut'en First Nation	Ketlo, Beverly	250-690-7211	bketlo@nadleh.ca
Saik'uz First Nation	Thomas, Jackie	250-567-9293	jackie.thomas@saikuz.com
Stellat'en First Nation	Luggi, David	s.22	dluggi@netbistro.com

EAO Representation

- Kevin Jardine
- Cory Waters
- Steve McNaughton

Meeting objective- Discuss concerns with the Blackwater EA review time frame.

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871

EAO | Environmental Assessment Office

From: McDonald, Tavis EAO:EX
Sent: Tuesday, June 28, 2016 8:51 AM
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Sent: Wednesday, June 29, 2016 2:17 PM
To: Craven, Paul EAO:EX; Edquist, Kevin FLNR:EX; Jeakins, Paul OGC:IN; Paulson, Ken OGC:IN
Cc: Rousselle, Jillian FLNR:EX; De Champlain, Rhonda MEM:EX; Jardine, Kevin EAO:EX; Loiacono, Sabrina EAO:EX
Subject: ELUC - June 30th - Timing

Please note that the s.12 will be the first item on the ELUC agenda. You are asked to be outside Chambers or PVO by 9:50 a.m. tomorrow.

Thank you

Paul Finkel | Cabinet Operations
Room 049| 617 Government St. | Victoria, BC | V8W 9V1
250.387.0728

Loiacono, Sabrina EAO:EX

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:24 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: Merit Commissioner Annual Report 2015 / 16
Attachments: 2015-2016_Annual_Report-Merit_Commissioner-double_page_view.pdf

For your review/interest.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Page 2027 to/à Page 2039

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:34 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: DMC Presentation
Attachments: DM Update and Ministerial Training Slides - Final.pptx

Good afternoon

Attached please find a presentation that had been circulated to DMC by Cheryl Wenezenki-Yolland. For your information only.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Page 2041 to/à Page 2065

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 2:35 PM
To: EAO Executive
Cc: Fenton, Chrystal EAO:EX
Subject: FW: DMC Presentation
Attachments: DM Update and Ministerial Training Slides - Final.pptx

FYI...for discussion at our next Executive meeting.

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:34 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: DMC Presentation

Good afternoon

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Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Page 2067 to/à Page 2091

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 2:38 PM
To: EAO Senior Management Team
Subject: FW: Merit Commissioner Annual Report 2015 / 16
Attachments: 2015-2016_Annual_Report-Merit_Commissioner-double_page_view.pdf

FYI...please share at your discretion.

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:24 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: Merit Commissioner Annual Report 2015 / 16

For your review/interest.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Page 2093 to/à Page 2105

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From:	Leonard Sojka <lsojka@adanacmoly.com>
Sent:	Wednesday, June 29, 2016 2:46 PM
To:	Jardine, Kevin EAO:EX
Cc:	barry@zinexmining.com
Subject:	Re: Ruby Creek Project Certificate Transfer

Thank you Kirsten.

On Wed, Jun 29, 2016 at 4:41 PM, Jardine, Kevin EAO:EX <Kevin.Jardine@gov.bc.ca> wrote:

Dear Messrs. Sojka and Hanslit,

Please find attached correspondence from Associate Deputy Minister Kevin Jardine regarding the Ruby Creek Project,

Regards,

Kirsten Neilson | Executive Administrative Assistant

Associate Deputy Minister's Office

Environmental Assessment Office

Phone: 250-356-7479

Email: kirsten.neilson@gov.bc.ca

EAO Environmental Assessment Office

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Loiacono, Sabrina EAO:EX

From: Neilson, Kirsten EAO:EX
Sent: Wednesday, June 29, 2016 2:46 PM
To: Jardine, Kevin EAO:EX
Subject: Corporate Succession Meeting - July 4th

Hi Kevin,

PSA has asked if you would like to stay for lunch following your 11am meeting on Monday. You currently have the PNW update scheduled for 12:30pm. Could you please advise?

Thank you,

Kirsten Neilson | Executive Administrative Assistant
Associate Deputy Minister's Office
Environmental Assessment Office
Phone: 250-356-7479
Email: kirsten.neilson@gov.bc.ca

EAO Environmental Assessment Office

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Loiacono, Sabrina EAO:EX

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:49 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX; Barillaro, Scott W ENV:EX
Cc: Gilmour, Lori ENV:EX; Gooderham, Coleen E ENV:EX; Llewellyn-Thomas, Marnie ENV:EX; Quin, Melissa ENV:EX; Cameron, Tara D ENV:EX; Stainton, Beverley ENV:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX
Subject: Article 29 Joint Committee appointments
Attachments: Scan_20160629.pdf

Sending for your information only.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

Page 2109

Withheld pursuant to/removed as

DUPLICATE

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 2:47 PM
To: Neilson, Kirsten EAO:EX
Subject: RE: Corporate Succession Meeting - July 4th

No, sorry, I'll have to get back for my 12:30.

From: Neilson, Kirsten EAO:EX
Sent: Wednesday, June 29, 2016 2:46 PM
To: Jardine, Kevin EAO:EX
Subject: Corporate Succession Meeting - July 4th

Hi Kevin,

PSA has asked if you would like to stay for lunch following your 11am meeting on Monday. You currently have the PNW update scheduled for 12:30pm. Could you please advise?

Thank you,

Kirsten Neilson | Executive Administrative Assistant
Associate Deputy Minister's Office
Environmental Assessment Office
Phone: 250-356-7479
Email: kirsten.neilson@gov.bc.ca

EAO Environmental Assessment Office

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Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 3:31 PM
To: Craven, Paul EAO:EX
Subject: Valmount Glacier Resort

Per out discussion: http://valemountglaciers.com/project-team/

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

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Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 4:03 PM
To: Heather Smith
Subject: George Massey Tunnel Replacement

Any idea, Heather, as to when Minister McKenna will make her decision on this and when it might be communicated to Metro Van?

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 4:17 PM
To: Neilson, Kirsten EAO:EX
Cc: Loiacono, Sabrina EAO:EX; Bohn, Dominique EAO:EX
Subject: Mtg

Can you please schedule a meeting for as close to my return date on the 21st as possible, Kirsten, with Wilf Bangert, Trish Dohan & Denise Rossander? The subject is "Agile & NRPP Project Selection".

Rgds,
K.
250-361-6753

Loiacono, Sabrina EAO:EX

From: Fenton, Chrystal EAO:EX
Sent: Wednesday, June 29, 2016 5:00 PM
To: Jardine, Kevin EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: FW: As discussed: revised letter from Kevin to TWN/MIB
Attachments: 301481_EAO_letter_Musqueam and Tsleil Waututh response_June 29.docx

Hi Kevin, please find attached the letter Sabrina just called you about for your review of the changes.

Thanks
Chrystal

Page 2115 to/à Page 2117

Withheld pursuant to/removed as

s.16;s.13

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 5:08 PM
To: Fenton, Chrystal EAO:EX
Cc: Loiacono, Sabrina EAO:EX
Subject: Re: As discussed: revised letter from Kevin to TWN/MIB

Thx, Chrystal. This looks fine given the time crunch. Approved for signature and transmittal.

Rgds,
K.
250-361-6753

On Jun 29, 2016, at 5:00 PM, Fenton, Chrystal EAO:EX <Chrystal.Fenton@gov.bc.ca> wrote:

> Hi Kevin, please find attached the letter Sabrina just called you about for your review of the changes.
>
> Thanks
> Chrystal
>
> <301481_EAO_letter_Musqueam and Tsleil Waututh response_June 29.docx>

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX on behalf of Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 5:16 PM
To: 'Chief.wsparrow@musqueam.bc.ca'; 'chief@twnation.ca'
Cc: 'egeorge@twnation.ca'; 'tsmith@twnation.ca'; 'jsanchez@musqueam.bc.ca'; 'DBSparrow@musqueam.bc.ca'
Subject: Correspondence- Eagle Mountain-Woodfibre Gas Pipeline Project
Attachments: 301481_EAO_letter_Musqueam and Tsleil Waututh response_June 29-signed.pdf

Dear Chief Sparrow and Chief Thomas,

Please see the attached correspondence regarding the Eagle Mountain-Woodfibre Gas Pipeline Project and your request for the continuation of the suspension of the Environmental Assessment process.

With best regards,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

EAO Environmental Assessment Office

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Page 2120 to/à Page 2122

Withheld pursuant to/removed as

s.16

Loiacono, Sabrina EAO:EX

From: Smith,Heather [CEAA] <Heather.Smith@ceaa-acee.gc.ca>
Sent: Wednesday, June 29, 2016 8:26 PM
To: Jardine, Kevin EAO:EX
Subject: Re: George Massey Tunnel Replacement

Hi Kevin! I have heard it won't be this week, but will try to confirm this tomorrow. Cheers!
Heather Smith, VP Operations
CEAA - ACÉE 613 948-2665

----- Original Message -----
From: Jardine, Kevin EAO:EX [mailto:Kevin.Jardine@gov.bc.ca]
Sent: Wednesday, June 29, 2016 07:02 PM Eastern Standard Time
To: Smith,Heather [CEAA]
Subject: George Massey Tunnel Replacement

Any idea, Heather, as to when Minister McKenna will make her decision on this and when it might be communicated to Metro Van?

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

Loiacono, Sabrina EAO:EX

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 8:29 PM
To: Smith,Heather [CEAA]
Subject: Re: George Massey Tunnel Replacement

Thx, Heather. Much appreciated!!

Rgds,
K.
250-361-6753

*Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

> On Jun 29, 2016, at 8:26 PM, Smith,Heather [CEAA] <Heather.Smith@ceaa-acee.gc.ca> wrote:
>
> Hi Kevin! I have heard it won't be this week, but will try to confirm this tomorrow. Cheers!
> Heather Smith, VP Operations
> CEAA - ACÉE 613 948-2665
>
> ----- Original Message -----
> From: Jardine, Kevin EAO:EX [mailto:Kevin.Jardine@gov.bc.ca]
> Sent: Wednesday, June 29, 2016 07:02 PM Eastern Standard Time
> To: Smith,Heather [CEAA]
> Subject: George Massey Tunnel Replacement
>
> Any idea, Heather, as to when Minister McKenna will make her decision on this and when it might be communicated to Metro Van?
>
>
> Rgds,
> K.
> 250-361-6753
>
> *Sent from my iPhone. Please excuse any inadvertent spelling or grammatical errors.

Loiacono, Sabrina EAO:EX

From: Braun, Nathan EAO:EX
Sent: Wednesday, June 29, 2016 9:22 PM
To: Jardine, Kevin EAO:EX
Cc: Waters, Cory EAO:EX; Shepard, Michael EAO:EX; Neilson, Kirsten EAO:EX; Loiacono, Sabrina EAO:EX; Fenton, Chrystal EAO:EX
Subject: FYI: Metro Vancouver announcement re GMT

Hi Kevin,

As mentioned at our briefing this morning, Mike and team have updated the project issues note and info note for GMT in light of Metro Vancouver's release today. We also thought it would be useful to provide you with a few bullets specific to this issue. Mike pulled together the following.

- On June 29th, 2016, Metro Vancouver released an impact assessment report regarding the proposed George Massey Tunnel Replacement Project, and held a press conference to announce the findings.
- The report summarizes key concerns of Metro Vancouver, which include:
  - Insufficient consideration of alternatives
  - Lack of integration into the regional growth strategy and transportation network
  - Ecological disruption to the Fraser River estuary
  - Impacts on Metro Vancouver infrastructure, including water mains and sewer lines
  - Impacts to Deas Island Regional Park
  - Downloading of major expenditures onto local governments for road improvements
  - Insufficient consideration to climate change and air quality
- In preparing the report, Metro Vancouver has relied on information from MOTI's Application, which EAO considers to be confidential and incomplete at this time, as the Application is still being evaluated for completeness and has not yet accepted for review. Metro Vancouver staff received the screening copy of the Application as part of EAO's working group.
- Metro Vancouver indicated that they will be providing this report to the provincial Ministers of Transportation and Environment, the Federal Minister of Environment, and EAO.
- EAO has discussed the report with Metro Vancouver staff, following its release, and has communicated that many of the issues raised in the report will be discussed and assessed in greater detail in the Application, once revised by the Proponent during screening and accepted, and during the Application Review period.
- MOTI is continuing to meet regularly with Metro Vancouver staff to discuss and address their concerns and Metro Vancouver is participating on the working group.
- Recommended responses:
  - EAO is still reviewing the Application for the proposed George Massey Tunnel Replacement Project for completeness, and has not yet accepted the Application for review.
  - Once EAO has determined that the Application is complete, EAO will be conducting a rigorous assessment that will include consultation with the public, local governments, and Aboriginal groups.

Nathan Braun
Executive Project Director, Oil & Gas Sector
Environmental Assessment Office
Office: (250) 952-6507 | Cell: (250) 882-2050
Fax: (250) 387-0230 | Email: nathan.braun@gov.bc.ca

Loiacono, Sabrina EAO:EX

From: Loiacono, Sabrina EAO:EX
Sent: Wednesday, June 29, 2016 9:49 PM
To: Braun, Nathan EAO:EX; Jardine, Kevin EAO:EX
Cc: Waters, Cory EAO:EX; Shepard, Michael EAO:EX; Neilson, Kirsten EAO:EX; Fenton, Chrystal EAO:EX; Craven, Paul EAO:EX; Vinette, Nicole EAO:EX
Subject: Re: FYI: Metro Vancouver announcement re GMT

Just looping in the issues team as I don't see them CC'ed on this email.

S.

Sent from my BlackBerry 10 smartphone on the TELUS network. Please excuse typos.

From: Braun, Nathan EAO:EX
Sent: Wednesday, June 29, 2016 9:22 PM
To: Jardine, Kevin EAO:EX
Cc: Waters, Cory EAO:EX; Shepard, Michael EAO:EX; Neilson, Kirsten EAO:EX; Loiacono, Sabrina EAO:EX; Fenton, Chrystal EAO:EX
Subject: FYI: Metro Vancouver announcement re GMT

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  - Lack of integration into the regional growth strategy and transportation network
  - Ecological disruption to the Fraser River estuary
  - Impacts on Metro Vancouver infrastructure, including water mains and sewer lines
  - Impacts to Deas Island Regional Park
  - Downloading of major expenditures onto local governments for road improvements
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- Recommended responses:

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- Once EAO has determined that the Application is complete, EAO will be conducting a rigorous assessment that will include consultation with the public, local governments, and Aboriginal groups.

Nathan Braun
Executive Project Director, Oil & Gas Sector
Environmental Assessment Office
Office: (250) 952-6507 | Cell: (250) 882-2050
Fax: (250) 387-0230 | Email: nathan.braun@gov.bc.ca

EAO | Environmental Assessment Office

Loiacono, Sabrina EAO:EX

From: Singbeil, Samantha <Samantha.Singbeil@fortisbc.com>
Sent: Wednesday, June 29, 2016 9:59 PM
To: Jason Forsyth (jforsyth@twnation.ca); jsanchez@musqueam.bc.ca
Cc: Byng Giraud <byng_giraud@wlng.ca> (byng_giraud@wlng.ca); Minister, MNGD MNGD:EX; Nikolejsin, Dave MNGD:EX; Coley, Simon J JAG:EX; Minister, ENV ENV:EX; Jardine, Kevin EAO:EX; Shepard, Michael EAO:EX; Stout, Douglas; Kanzaki, Art
Subject: FortisBC Response to MIB & TWN June 16 letter RE: EGP
Attachments: EGP - Response to Musqueam and TWN June 16 Letter - 6 29 2016.pdf

Greetings Jason & Jaime,

Please find attached FortisBC's response to Musqueam and Tsleil-Waututh Nations' June 16th letter regarding the Eagle-Mountain to Woodfibre project.

Respectfully,

Samantha

Samantha Singbeil | FortisBC
Aboriginal Relations Manager | External Relations
T: 604.592.8264 | C: 604.329.5204 | 16705 Fraser Highway | Surrey, BC | V4N 0E8

This email was sent to you by FortisBC*. The contact information to reach an authorized representative of FortisBC is 16705 Fraser Highway, Surrey, British Columbia, V4N 0E8, Attention: Communications Department. You can unsubscribe from receiving further emails from FortisBC or email us at unsubscribe@fortisbc.com

*"FortisBC" refers to the FortisBC group of companies which includes FortisBC Holdings. Inc., FortisBC Energy Inc., FortisBC Inc., FortisBC Alternative Energy Services Inc. and Fortis Generation Inc.

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FORTIS BC™

Douglas L. Stout
Vice President, Market Development
and External Relations

16705 Fraser Highway
Surrey, BC V4N 0E8
Tel: 604-592-7911
E-mail: douglas.stout@fortisbc.com
www.fortisbc.com

June 29, 2016

Chief Wayne Sparrow
Musqueam Indian Band
6735 Salish Drive
Vancouver, BC V6N 4C4

Chief Maureen Thomas
Tsleil-Waututh Nation
3075 Takaya Drive
North Vancouver, BC V7H 3A8

Dear Chief Wayne Sparrow and Chief Maureen Thomas:

RE: Musqueam and Tsleil-Waututh Nations' request re timing of EA Process

In response to the June 16, 2016 letter from both the Musqueam Nation and Tsleil-Waututh Nation ("Nations"), FortisBC would like to reiterate that we are committed to meaningful long term relationships with the Nations, which includes negotiating an impact and benefits agreement for the Eagle Mountain – Woodfibre Gas Pipeline Project ("Project"). As we stated in our meeting on June 27, 2016, FortisBC takes its commitments very seriously, and we know that our relationships with Aboriginal communities in our service territory, including the Nations, are long term relationships that must be built on trust and follow through of mutually agreed to commitments.

In our May 31, 2016 letter we outlined the steps that led to the suspension of the environmental assessment process for the Project that has been in effect since June 29, 2015. During that period, the consultation efforts and processes continued with both Nations. In addition, during that period FortisBC remained open to and supportive of negotiating an impact and benefits agreement. Although we were unable to progress those negotiations over the last year, we are buoyed by the renewed interest that your Nations have shown and we are confident that real progress can soon be made if all parties dedicate the resources and time to the task.

During the year our environmental assessment process has been paused, Woodfibre LNG (the primary customer for the Project) has received its Environmental Assessment Certificate and CEAA approval. In order to meet its commitments, FortisBC will have had to receive an Environmental Assessment Certificate ("EAC") with sufficient time to do the further detailed project design work this fall (2016). The EAC, with an approved corridor for the pipeline, will provide the platform to further the design work needed to provide the foundation for our mitigation measures. FortisBC has now run out of additional time and needs for the process to continue in order to achieve the required business certainty within the time available.

In your June 16, 2016 letter the Nations identify two examples of outstanding issues in the consultation process, both of which we believe have already been addressed in the environmental assessment process by FortisBC:

1. You express concern that the Project alignment might impact areas that are culturally and environmentally essential to you. FortisBC heard this concern and as a result proposed Addendum 4 to the Application to expand the Application Corridor in order to provide additional flexibility to FortisBC's efforts to address these areas of concern to the Nations. In addition, we understand that the Tsleil-Waututh Nation is in discussion with the EAO regarding a further condition that will provide some structure around alignment decisions going forward.
2. You expressed concern that Musqueam Nation has not had access to all the information regarding the Project provided to other Nations. However, from the beginning of the process FortisBC has provided the Musqueam Nation with all the same information (excluding confidential information), offers of support, capacity and opportunities that we have provided to the other relevant First Nations.

FortisBC is confident that sufficient time has been made available to complete the consultation with respect to this phase of the environmental assessment of the Project. It is only once FortisBC has an Environmental Assessment Certificate in hand that FortisBC will be able to continue the work necessary in order to seek the applicable permits for a precise alignment of the pipe inclusive of the detailed environmental - construction methodology requirements within the Application Corridor. FortisBC will continue our engagement with all concerned First Nations regarding the development of this part of the Project.

There is nothing, however, that links the negotiation of an impact and benefits agreement with the continued progress of the environmental assessment of the Project. The process of consultation on the environmental assessment is unrelated to the progress of our negotiations on an impact and benefits agreement. There is no reason to further delay the environmental assessment process, as there is nothing preventing the negotiations from continuing through the next few months as the environmental assessment process is completed.

Even after when the environmental assessment process is completed and if an impact and benefits agreement hasn't been completed by that point in time, FortisBC will remain committed to negotiating an impact and benefits agreement with the Nations for the Project.

As stated in earlier correspondence, FortisBC agrees that we can have fulsome, transparent, meaningful negotiations fairly efficiently. We will make every effort to attend and support meetings when and where it is most convenient for the Nations.

Sincerely,



Doug Stout
Vice President, Market Development
and External Relations

cc. Byng Giraud - Vice President, Corporate Affairs - Woodfibre LNG

The Honourable Rich Coleman, Deputy Premier and Minister of Natural Gas Development, email: MNGH.minister@gov.bc.ca

Dave Nikolejsin, Deputy Minister, Ministry of Natural Gas Development, e-mail: Dave.Nikolejsin@gov. bc.ca

Simon Coley, Legal Counsel, Deputy Minister's Office, Ministry of Natural Gas Development, e-mail: Simon.Coley@gov.bc.ca

The Honourable Mary Polack, Minister of Environment, e-mail: ENV.minister@gov.bc.ca

Kevin Jardine, Associate Deputy Minister and EAO Executive Director, e-mail: Kevin.Jardine@gov.bc.ca

Mike Shepherd, Project Assessment Manager, Environmental Assessment Office email: Michael.Shepard@gov.bc.ca

From:	Carter, Rumon EAO:EX
To:	EAO: Staff - All
Subject:	(New) EPIC Test Drive

All: Thank you for your EPIC time and EPIC interest (sorry, can't be helped - I promise to stop soon…ish) at the all-staff earlier today. Following on that gathering, as promised, I'm booking a time for us to open house the new platform, show folks around, answer any questions, etc. I note we already have a ½ hour on the books on Thursday for this purpose, but for a variety of reasons I'm going to shift to this time, not least to expand the available time to an hour so you can drop by anytime within the hour to check out the latest, trade show style. (And also, strategically, to flow into Terri's retirement tea given she's a far stronger draw than I, so hoping to maximize my subscription!) I know this overlaps with the Power & Community team's meeting, so please feel encouraged if you're on that team to make an EPIC drop-in beforehand.

Looking forward to it,

r.

From: At Work News PSA:FX
Subject: @Work Newsletter | June 29, 2016
Date: Wednesday, June 29, 2016 11:30:43 AM

View in browser

@Work Newsletter | June 29, 2016

• A SELECTION OF WHAT'S MAKING NEWS RIGHT NOW •

Candid Camera



Candid Camera

You came, you saw, you renewed your vows – and it's all captured on video.

Read more >>

News

Aboriginal Community Focus

Aboriginal Community Focus

Aboriginal career, culture and community were the focus of two days of engagement in Victoria in April.

Read more >>

News

ETC. Talk with Deedee

ETC. Talk with Deedee

In this moving ETC. Talk, Deedee Woodward reminds us that we can all do something small to make a huge difference.

Read more >>

News

Take Note

- Thanks to your support, the BC Organ Donor Registry reached one million registrations on June 27.
- Canada Day is on Friday. Take part in celebrations in Victoria, Vancouver or your community!
- Canada Post is currently in negotiation with the Canadian Union of Postal Workers with BC Mail Plus for Status.

[redacted]

Did You Know?

[redacted]

When Good Webinars Go Bad

"If you plan for the worst, then you will be able to relax more in the session, knowing you can handle (most of) whatever is thrown at you."

Read more >>

Posted by: Barthorpe, Anna-Leiza P5A:EX

Join the Conversation

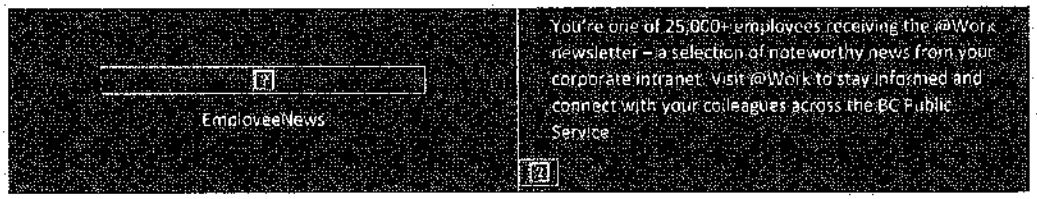
"What we've learned is that technology is great, but you need to ensure you start with the user, understand what the user needs, and how you can make it easy for them."

Read more >>

Posted by: Hughes, Bette-Jo MTIC:EX

Blogs

Comments



From: Dan Woynillowicz
To: Perry, Monica EAO:EX
Subject: A Paris Agreement Brexit?
Date: Monday, June 27, 2016 3:05:57 AM

Copyright

Page 2136 to/à Page 2140

Withheld pursuant to/removed as

Copyright

From: Perry, Monica EAO:EX
To: Dunae, Vanessa EAO:EX
Subject: Accepted: Burnco - EAO - Agency Biweekly Call

From: Perry, Monica EAO:EX
To: Dunae, Vanessa EAO:EX
Subject: Accepted: Burnco CEAA EAO Call

From: Perry, Monica EAO:EX
To: Dunae, Vanessa EAO:EX
Subject: Accepted: Burnco report out

From: Perry, Monica EAO:EX
To: Dunae, Vanessa EAO:EX
Subject: Accepted: Burnco timing

From: Christie, Karen L EAO:EX
To: Perry, Monica EAO:EX
Subject: Accepted: capacity funding follow-up

From: Perry, Monica EAO:EX
To: Carter, Rumon EAO:EX
Subject: Accepted: EPIC All-Staff Training (Option 1)

From: Perry, Monica EAO:EX
To: Carr, Michelle EAO:EX
Subject: Accepted: M Perry - E-Performance planning

From: Perry, Monica EAO:EX
To: Batty, Adam EAO:EX
Subject: Accepted: Narrows Inlet - check in & WG

From: Foote, Sheldon EAO:EX on behalf of Waters, Cory EAO:EX
To: Perry, Monica EAO:EX
Subject: Accepted: regional workshops

From: Perry, Monica EAO:EX
To: Jardine, Kevin EAO:EX
Subject: Accepted: s.22

From: Craven, Paul EAO:EX
To: EAO Executive Project Directors
Cc: Carr, Michelle EAO:EX; Scraba, Erin H EAO:EX; Fenton, Chrystal EAO:EX; Cheema, Kashmiro K EAO:EX; Craven, Paul EAO:EX
Subject: Amendment Guidance
Date: Monday, June 27, 2016 8:19:10 AM
Attachments: s.13

Hello all,

Attached are the revised amendment guidance, staff procedures and template following our discussion. Below is a summary of the changes for your information. Following PPP approval, the material will be distributed to staff and an information session held. Erin will also work with sector leads to distribute to industry associations (offering an opportunity for a briefing). We are aiming to release on our website end of July.

s.13

s.13

If you have questions, please let me know.

Paul

Page 2153 to/à Page 2174

Withheld pursuant to/removed as

DUPLICATE

From: Perry, Monica EAO:EX
To: Bailey, Scott EAO:EX
Subject: Are you off this week?
Date: Wednesday, June 29, 2016 11:46:00 AM
Attachments: image001.png

Hi Scott, I wanted to touchbase with you on the capacity funding piece but I seem to recall that you may be off? If you are not, can you give me a call? Many thanks.

Monica Perry
Executive Project Director, Power and Community Infrastructure
Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208
cid:image001.png@01D10288.102B8370



From:	Fenton, Chrystal EAO:EX
To:	EAO Executive Project Directors; EAO Managers
Subject:	As promised at OMT: RBT2 letter to panel
Date:	Monday, June 27, 2016 10:58:22 AM
Attachments:	301464_Response re Federal Panel RBT2_24June2016-signed.pdf image003.jpg

As discussed at OMT please find attached the letter Kevin sent to the panel for RBT2.

Thank you

Chrystal Fenton | Executive Administrative Assistant
Environmental Assessment Operations, Environmental Assessment Office
Phone: 250-387-9408

email_signature



From:	Haberl, Kevin J FLNR:EX
To:	"Panel.RBT2@ceaa.gc.ca"
Cc:	Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Paganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Hilges, Jeremy JTST:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX; Haines, Kate EAO:EX
Subject:	As Requested: RBT2 Panel presentations - FLNRO
Date:	Monday, June 27, 2016 11:51:48 AM
Attachments:	RBT2 FLNR PPT - Jun 28.pptx

Good morning,

Please find attached the presentation from FLNRO to the panel tomorrow.

Thanks,

Kevin Haberl, RPF
Director, Resource Authorizations, South Coast
Ministry of Forests, Lands and Natural Resource Operations
200 – 10428 153 Street, Surrey, BC V3R 1E1

Office: 604-586-4420
Cell: 604-892-4662

Our Vision: Economic prosperity and environmental sustainability

From: Hartley, Brenda FLNR:EX
To: Perry, Monica EAO:EX
Subject: Automatic reply: CAC today
Date: Tuesday, June 28, 2016 10:11:15 AM

I will be travelling to/from Vancouver for meetings on June 28, and should be back in the office Wednesday afternoon (June 29). For urgent matters, please call my cell (250) 371-1977.

Brenda Hartley
Director, Authorizations Initiatives Branch
(responsible forthe Major Projects Office)
Corporate Initiatives Division, FLNRO
phone: 250-828-4443 (Kamloops)
cell: 250-371-1977

From: Waters, Cory EAO:EX
To: Perry, Monica EAO:EX
Subject: Automatic reply: capacity funding folllow-up
Date: Wednesday, June 29, 2016 4:52:42 PM

---

s.22 [illegible]. I will be checking emails intermittently during this time. For immediate assistance, please contact Ricardo Toledo at 250-387-0833. Thanks.

Cory

From: Murphy, Shelley EAO:EX
To: Perry, Monica EAO:EX
Subject: Automatic reply: EAO Capacity Funding Discussion
Date: Wednesday, June 29, 2016 1:44:46 PM

Thank you for your email.

s.22

, and am not monitoring email. I will respond to your email as soon as I am able once I return to the office.

If you require immediate assistance, please contact:
Susan Hall at 250-387-2200 or email at susan.m.hall@gov.bc.ca

From:	Dale, Alec R ENV:EX
To:	Perry, Monica EAO:EX
Subject:	Automatic reply: EAO Capacity Funding Discussion
Date:	Wednesday, June 29, 2016 4:42:33 PM

I am out of the office June 29-July 8th, returning July 11th. Lyle Gawalko is acting ED from July 4-8th. I will be monitoring my email June 29-30 and will reply to your email when possible during those two days. If you need immediate assistance please call 250-387-9731 and someone will be able to assist you.

Thanks
Alec Dale, Ex. Dir.
Ecosystems Br.

From: Gawalko, Lyle ENV:EX
To: Perry, Monica EAO:EX
Subject: Automatic reply: EAO Capacity Funding Discussion
Date: Wednesday, June 29, 2016 4:42:33 PM

---

s.22

. I will be monitoring my email and will respond as time permits. From June 25 to July 1, I will not be monitoring my email and I will respond on July 4. If this message is urgent, please forward to Richard Thompson.

Thanks....Lyle Gawalko

From: Carr, Michelle EAO:EX
To: Perry, Monica EAO:EX
Subject: Automatic reply: M Perry - E-Performance planning
Date: Monday, June 27, 2016 2:35:37 PM

---

s.22 and will not be checking messages during this period.

If you require assistance during this time please contact Chrystal Fenton at 250-387-9408 or chrystal.fenton@gov.bc.ca or Cory Waters A/ADM at 250-387-1032

Thanks,
Michelle

From: Darling, May Y EAO:EX
To: Perry, Monica EAO:EX
Subject: Automatic reply: Power and Community Infrastructure Team Meetings
Date: Wednesday, June 29, 2016 1:44:46 PM

Effective immediately, s.22 . For enquiries regarding the following projects, please contact the appropriate person:

- Rev 6 - Kate Haines at 250-387-2174
- Narrows Inlet - Monica Perry at 250-387-2402.

If you cannot reach the persons noted above and need to speak with someone urgently regarding a project, please contact Sheldon.Foote at 250-387-9409 or Susan Hall at 250-387-2200 for assistance.

If your matter relates to a personal matter, please contact me directly at s.22

May Darling

From: Foote, Sheldon EAO:EX
To: Perry, Monica EAO:EX
Subject: Automatic reply: Question
Date: Tuesday, June 28, 2016 10:48:16 AM

Please note s.22 . I will reply to your message when I return at that time. Thank you.

From: Grace, David H EAO:EX
To: Perry, Monica EAO:EX
Subject: Automatic reply: The Secrets of the Sales Grandmasters
Date: Tuesday, June 28, 2016 5:54:32 PM

Hello - I am currently s.22

I will be checking my email intermittently.

If you need immediate assistance please
Steven De Almeida Telephone 250 387-2563
Steven.DeAlmeida@gov.bc.ca

From:	Dunae, Vanessa EAO:EX
To:	Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Batty, Adam EAO:EX; "Alan_Calder@golder.com"; "Stefan.Crampton@ceaa-acee.gc.ca"; "James.Holmes@burnco.com"; "melgabo@telus.net"; "Rob.Hajdu@ceaa-acee.gc.ca"; Payne, Lisa MEM:EX; Ferguson,Laramie [CEAA]
Cc:	Rollo, Andrew MEM:EX; Derek Holmes
Subject:	Burnco - EAO - Agency Biweekly Call

Teleconference Number
s.17 (North America Toll Free)
(Vancouver Local)

Participant Conference ID
s.17

Standing Agenda
Updates from Proponent, EAO, CEAA and Agencies; Next Steps

From: Dunae, Vanessa EAO:EX
To: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Hajdu,Rob [CEAA]; "Crampton,Stefan [CEAA]"; Ferguson,Laramie [CEAA]; Alan Calder; "Derek Holmes"
Subject: Burnco CEAA EAO Call

Call proposed to check in on timing and subsequent bookings

Teleconference Number
s.17 (North America Toll Free)
(Vancouver Local)

Participant Conference ID
s.17

From: Hajdu,Rob [CEAA]
To: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Dunae, Vanessa EAO:EX
Subject: Burnco Joint Ad
Date: Tuesday, June 28, 2016 2:12:09 PM
Attachments: JointPN_Burnco_EIS_EN.DOCX

Hi Monica, Gerry and Vanessa,

Here is the latest joint ad for the Burnco public comment period. I've updated the document with the dates that we spoke about today.

There are a couple of minor edits in track changes for you to look at. Once you're ok with the changes we'll clean-up the ad and send it to the proponent for posting in the media outlets.

Thanks very much,

Rob Hajdú

Project Manager
Canadian Environmental Assessment Agency / Government of Canada
rob.hajdu@canada.ca / Tel: 604-666-2601 / Cel. : 604-314-7507

Gestionnaire de projets
Agence canadienne d'évaluation environnementale Environnement Canada / Gouvernement du Canada
rob.hajdu@canada.ca / Tel: 604-666-2601 / Cel. : 604-314-7507

BURNCO Aggregate Mine Project

Public Comment Period and Information Sessions

The Canadian Environmental Assessment Agency (the Agency) and B.C.'s Environmental Assessment Office (EAO) are inviting the public to comment as part of the ongoing environmental assessment of the BURNCO Aggregate Mine Project. BURNCO Rock Products Ltd. has recently submitted its Environmental Impact Statement / Application (EIS / Application) which describes the project and its potential to cause environmental, heritage, health, social, and economic effects.

A copy of the complete EIS / Application and more information is available online at www.ceaa-acee.gc.ca and at www.eao.gov.bc.ca. A summary of the document in English or French is also available on the Agency's website at www.ceaa-acee.gc.ca.

Field Code Changed

Submit comments from [redacted] (TBC):

By Online Form: www.eao.gov.bc.ca By Email: BurncoAggregateMine@ceaa-acee.gc.ca By Fax: 250-387-0230

By Mail: BURNCO Aggregate Mine Project
Canadian Environmental Assessment Agency
410-701 West Georgia Street
Vancouver, British Columbia V7Y 1C6

OR

BURNCO Aggregate Mine Project
Environmental Assessment Office
PO Box 9426 Stn Prov Govt
Victoria, British Columbia V8W 9V1

The Agency accepts comments in either English or French. Comments only need to be submitted once to either the Agency or the EAO to be considered in both the provincial and federal environmental assessments.

Copies of the summary and the complete EIS / Application are also available for viewing at these locations:

Canadian Environmental Assessment Agency
Vancouver, B.C.
Viewing by appointment only
Telephone: 604-666-2431

West Vancouver Memorial Library
1950 Marine Drive
West Vancouver, B.C.

Bowen Island Public Library
430 Bowen Trunk Road
Bowen Island, B.C.

Squamish Public Library
37907 Second Avenue
Squamish, B.C.

Gibsons & District Public Library
470 South Fletcher Road
Gibsons, B.C.

Information Sessions
Information on the BURNCO Aggregate Mine Project and the EIS / Application will be available during information sessions held in Gibsons, West Vancouver and Squamish, B.C. Interested individuals will be able to speak with, and ask questions to, provincial and federal representatives and BUNRCO Rock Products Ltd.'s technical team.

Monday, July 25, 2016 from XX p.m. to XX p.m.
Squamish Adventure Centre
38551 Loggers Lane
Squamish, B.C.

Tuesday, July 26, 2016 from XX p.m. to XX p.m.
Gibsons & Area Community Centre
700 Park Road
Gibsons, B.C.

Wednesday, July 27, 2016 from XX p.m. to XX p.m.
Gleneagles Community Centre
6262 Marine Drive
West Vancouver, B.C.

The Proposed Project
BURNCO Rock Products Ltd. is proposing the construction and operation of a new sand and gravel mine located on the northwest shore of Howe Sound, approximately 22 kilometres southwest of Squamish, British Columbia. The mine's production capacity would be approximately 1 million tons of sand and gravel per year, over an expected mine life of about 16 years.

The project is subject to review under both the *Canadian Environmental Assessment Act* and B.C.'s *Environmental Assessment Act* and is undergoing a cooperative environmental assessment.

All submissions about the BURNCO Aggregate Mine Project received by the Agency or the EAO during the comment period are considered public. They will be posted to the EAO's website and will become part of the Agency's project file.

Canada

BRITISH COLUMBIA



From: Dunae, Vanessa EAO:EX
To: Hamblin, Gerry EAO:EX; Perry, Monica EAO:EX
Subject: Burnco report out

From: Dunae, Vanessa EAO:EX
To: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Dunae, Vanessa EAO:EX
Subject: Burnco Timing (Revised Proposal)
Date: Wednesday, June 29, 2016 11:22:02 AM

Revised timelines for proposed Burnco App Review, public comment period and open houses. This allows Burnco up to Monday morning to resubmit application, one week for EAO/CEAA to rescreen and signoff, one week lead-time for newspapers to print notice and staggered open houses to provide flexibility for public participation.

By the way, we are currently at Day 51 of the Screening period (30 days + 21). By signing off on Friday, July 8, we will be extending the Screening period by 31 days.

Day	Date	Milestone/Note	App Review 180 Days	PCP 45 Days
Thursday	June 30	Burnco resubmits application for final screening	--	--
Friday	July 1	Statutory holiday (Canada Day)	--	--
Monday	July 4	CEAA and EAO review resubmission	--	--
Friday	July 8	EAO application screening signoff	--	--
Monday	July 11	Burnco distributes notice to media Burnco distributes application for review (week of July 11-15)	-7	-14
Monday	July 18	Notice of public comment period and open houses appears App Review period begins	1	-7
Monday	July 25	Public comment period begins	7	1
Monday	August 1	Statutory holiday (BC Day)	14	7
Monday	August 8	Proposed open houses (week of August 8-12)	21	14
Monday	August 15	Proposed open houses (week of August 15-19)	28	21
Monday	Sept 5	Statutory holiday (Labour Day)	49	42
Thursday	Sept 8	Public comment period closes	52	45
Saturday	Jan 14	App Review period closes	180	--

From: Dunae, Vanessa EAO:EX
Sent: Tuesday, June 21, 2016 2:36 PM
To: 'Derek Holmes'; Alan Calder; 'Hajdu,Rob [CEAA]'; Ferguson,Laramie [CEAA]; 'Stefan.Crampton@ceaa-acee.gc.ca'
Cc: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Batty, Adam EAO:EX; Dunae, Vanessa EAO:EX
Subject: Burnco Timing for Application Review and Public Comment Period

Below are two potential timelines, as discussed. It may be useful to coordinate another call before our next scheduled teleconference on July 5. Please advise if Tuesday June 28 from 130 to 2pm suits.

For open houses/information sessions July 18-19-20

Monday	June 27	Burnco resubmits application for final screening
Tuesday	June 28	CEAA and EAO review resubmission
Friday	July 1	Canada Day statutory holiday
Monday	July 4	EAO application screening signoff
Monday	July 4	Burnco confirms receipt of applications for review to initiate day one of 180 Application Review process; public comment notifications distributed (within the week of July 4-8)
Monday	July 11	Notice of public comment period and open houses appears
Monday	July 18	Proposed open house/information session
Tuesday	July 19	Proposed open house/information session and site visit
Wednesday	July 20	Proposed open house/information session
Wednesday	August 31	Public comment period closes

This allows Burnco four business days to resubmit application, and four business days for rescreening (per stat holiday)

For open houses/information sessions July 25-26-27

Thursday	June 30	Burnco resubmits application for final screening
Friday	July 1	Canada Day statutory holiday
Monday	July 4	CEAA and EAO review resubmission
Monday	July 11	EAO application screening signoff
Monday	July 11	Burnco confirms receipt of applications for review to initiate day one of 180 Application Review process; public comment notifications distributed (within the week of July 11-15)
Monday	July 18	Notice of public comment period and open houses appears
Monday	July 25	Proposed open house/information session
Tuesday	July 26	Proposed open house/information session and site visit
Wednesday	July 27	Proposed open house/information session
Wednesday	Sept 7	Public comment period closes

This allows Burnco seven business days to resubmit application, and five business days for rescreening

From: Dunae, Vanessa EAO:EX
To: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Hajdu,Rob [CEAA]; "Crampton,Stefan [CEAA]"
Subject: Burnco timing

From: Perry, Monica EAO:EX
To: Hicks, Alan FLNR:EX; Hartley, Brenda FLNR:EX; Haines, Kate EAO:EX
Subject: CAC today
Date: Tuesday, June 28, 2016 10:11:14 AM

My apologies but I will not be in attendance today. Kate will be. We are both in Vancouver already at another meeting that I will stay here for. Brenda hopefully we can connect on capacity funding tomorrow. Monica.

Sent from my iPhone

From:	Fenton, Chrystal EAO:EX on behalf of Carr, Michelle EAO:EX
To:	Bates, Julia EAO:EX; Bailey, Scott EAO:EX; Braun, Nathan EAO:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Perry, Monica EAO:EX; Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX
Subject:	Canceled: Bi-weekly PMT
Importance:	High

From:	Bohn, Dominique EAO:EX
To:	Smith, Lena; Dekens, Tammy CSNR:EX; Wong, Gary CSNR:EX; Walter, Peter CSNR:EX; McGuigan, Erin EAO:EX
Cc:	EAO Staff - All; Rathbone, Mary EAO:EX; James, Tracy A EAO:EX; Haines, Kate EAO:EX; Hamblin, Gerry EAO:EX; Godfrey, Gillian EAO:EX; Angus, David EAO:EX; Milne, Andrew EAO:EX; Black, Brenda EAO:EX; McDonald, Geoff L EAO:EX; Mavall, Jane EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Schell, Natalie EAO:EX; Cote, Betty A EAO:EX; Worsley, Kristin E EAO:EX; Foote, Sheldon EAO:EX; Moore, Sean EAO:EX; Rodgers, Matthew EAO:EX; Ashcroft, Greg E EAO:EX; Del Rave, Nicole EAO:EX; Cheema, Kashmiro K EAO:EX; Antill, John EAO:EX; McLean, Alex D EAO:EX; Denis, Alex EAO:EX; McDonald, Tavis EAO:EX; Pizarro, Kirsten EAO:EX; Carlson, Justin EAO:EX; Walton, Lindsay EAO:EX; Murphy, Shelley EAO:EX; Darling, May Y EAO:EX; Perry, Monica EAO:EX; Morrison, Alli EAO:EX; Thede, Amy EAO:EX; Carr, Michelle EAO:EX; Karmona, Jennifer EAO:EX; Zurakowski, Krysia EAO:EX; Garside, Chelsea EAO:EX; Hall, Susan M EAO:EX; Roburn, Audrey EAO:EX; Hardie, Karie EAO:EX; Vinette, Nicole EAO:EX; Bond, Jeanine EAO:EX; Dunae, Vanessa EAO:EX; Pratt, Terry EAO:EX; Noble, Heather EAO:EX; Costello, Taylore EAO:EX; Haines, Mark R EAO:EX; Carter, Rumon EAO:EX; Lawrence, Cheryl A EAO:EX
Subject:	Canceled: ESM Demo + Meetup

Watch your calendar for the new, improved, more epic series coming soon from Rumon!

From:	Bohn, Dominique EAO:EX
To:	Smith, Lena; Dekens, Tammy CSNR:EX; Wong, Gary CSNR:EX; Walter, Peter CSNR:EX; McGuigan, Erin EAO:EX
Cc:	EAO Staff - All; Rathbone, Mary EAO:EX; James, Tracy A EAO:EX; Haines, Kate EAO:EX; Hamblin, Gerry EAO:EX; Godfrey, Gillian EAO:EX; Angus, David EAO:EX; Milne, Andrew EAO:EX; Black, Brenda EAO:EX; McDonald, Geoff L EAO:EX; Mayall, Jane EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Schell, Natalie EAO:EX; Cote, Betty A EAO:EX; Worsley, Kristin E EAO:EX; Foote, Sheldon EAO:EX; Moore, Sean EAO:EX; Rodgers, Matthew EAO:EX; Ashcroft, Greg E EAO:EX; Del Raye, Nicole EAO:EX; Cheema, Kashmiro K EAO:EX; Antill, John EAO:EX; McLean, Alex D EAO:EX; Denis, Alex EAO:EX; McDonald, Tavis EAO:EX; Pizarro, Kirsten EAO:EX; Carlson, Justin EAO:EX; Walton, Lindsay EAO:EX; Murphy, Shelley EAO:EX; Darling, May Y EAO:EX; Perry, Monica EAO:EX; Morrison, Alli EAO:EX; Thede, Amy EAO:EX; Carr, Michelle EAO:EX; Karmona, Jennifer EAO:EX; Zurakowski, Krysia EAO:EX; Garside, Chelsea EAO:EX; Hall, Susan M EAO:EX; Roburn, Audrey EAO:EX; Hardie, Karie EAO:EX; Vinette, Nicole EAO:EX; Bond, Jeanine EAO:EX; Dunae, Vanessa EAO:EX; Pratt, Terry EAO:EX; Noble, Heather EAO:EX; Costello, Taylore EAO:EX; Haines, Mark R EAO:EX; Carter, Rumon EAO:EX; Lawrence, Cheryl A EAO:EX; Starks, Terri EAO:EX; Waters, Cory EAO:EX; Rennert-May, Leya EAO:EX
Subject:	Canceled: ESM Demo + Meetup

From: Loiacono, Sabrina EAO:EX
To: Carr, Michelle EAO:EX; Carter, Rumon EAO:EX; Perry, Monica EAO:EX
Subject: Canceled: Hold EPIC Breifing with Clean Energy BC
Importance: High

From:	
To:	Loiacono, Sabrina EAO:EX on behalf of Jardine, Kevin EAO:EX
Cc:	Perry, Monica EAO:EX; Bohn, Dominique EAO:EX; Starks, Terri EAO:EX; Loiacono, Sabrina EAO:EX; EAO Senior Management Team; Carter, Rumon EAO:EX
	Christie, Karen L EAO:EX; Scraba, Erin H EAO:EX; Waters, Cory EAO:EX; Braun, Nathan EAO:EX; Bates, Julie EAO:EX; Craven, Paul EAO:EX; Bailey, Scott EAO:EX; Cousins, Autumn EAO:EX; Carr, Michelle EAO:EX; Murphy, Shelley EAO:EX; Lawrence, Cheryl A EAO:EX; Hamblin, Gerry EAO:EX
Subject:	Canceled: Senior Management Team
Importance:	High

From:	Loiacono, Sabrina EAO:EX on behalf of Jardine, Kevin EAO:EX
To:	Perry, Monica EAO:EX; Bohn, Dominique EAO:EX; Starks, Terri EAO:EX; Loiacono, Sabrina EAO:EX; EAO Senior Management Team; Carter, Rumon EAO:EX
Cc:	Christie, Karen L EAO:EX; Scraba, Erin H EAO:EX; Waters, Cory EAO:EX; Braun, Nathan EAO:EX; Bates, Julia EAO:EX; Craven, Paul EAO:EX; Bailey, Scott EAO:EX; Cousins, Autumn EAO:EX; Carr, Michelle EAO:EX; Murphy, Shelley EAO:EX; Lawrence, Cheryl A EAO:EX; Hamblin, Gerry EAO:EX
Subject:	Canceled: Senior Management Team
Importance:	High

From:	Perry, Monica EAO:EX
To:	Christie, Karen L EAO:EX; Bailey, Scott EAO:EX; Braun, Nathan EAO:EX; Murphy, Shelley EAO:EX; Waters, Cory EAO:EX; Foote, Sheldon EAO:EX
Subject:	capacity funding follow-up

I know not everyone is free, working around a few peoples schedules, so hoping this time works.

From: Perry, Monica EAO:EX
To: Craven, Paul EAO:EX
Subject: Compliance
Date: Tuesday, June 28, 2016 1:50:38 PM

Are we tier one law enforcement? They asked mark about moe compliance.

Sent from my iPhone

From: Ana from ACHIEVE
To: Perry, Monica EAO:EX
Subject: Conflict, Communication and Leadership (Fall Workshops)
Date: Tuesday, June 28, 2016 3:13:31 PM

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Page 2206

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From: CSNR Intranet CSNR:EX
To: CSNR Intranet CSNR:EX
Subject: CSNR Fast Facts - Corporate Services News for the Natural Resource Sector
Date: Wednesday, June 29, 2016 10:14:40 AM
Attachments: image001.png
image002.jpg
image003.png
image004.jpg
image005.png
image006.png

Fast Fast @ CSNR

A corporate services information bulletin for the Natural Resource Sector.

June 29, 2016

Note: Fast Facts will be moving to a bi-weekly schedule through July-August. The next edition will be published on **July 13.**

Read full articles on the Fast Facts news feed

THINGS YOU NEED TO DO

- Important Summertime Reminders
- Reminder to Supervisors – Retiring Expense Authorities (EA)

THINGS YOU NEED TO KNOW

- Upcoming Corporate Financial System (CFS, formerly known as CAS) Upgrade
- Pre-Authorized Debit payments for Travel Cards
- New Performance Cycle

CSNR

- CSNR Intranet
- CSNR Fast Facts
- Previous issues

Potential Disruption to Canada Post: Payroll Direct Deposit Reminder

THINGS OF INTEREST

Our Values

TED Talks – The Formula for Happiness

Featured NRS Jobs

ADMN O 18R - Policy Analyst - MEM (Victoria)
TEO 21R - Scaling Officer - FLNR (Queen Charlotte)
POL SC 27R - Legislative Advisor - ENV (Victoria)
ADMN O 27R - Implementation Coordinator – AMENDED – MARR (Victoria)
ADMN O 24 - Analyst, Critical Incidents – MARR (Victoria)
CLK R14 - Office Manager - AGRI (Burnaby)

See this week's NRS Jobs Listings (28 new)

Need to feature an NRS job posting? Send it in!

Fast Facts @ CSNR

Next issue coming to you on July 13, 2016.

Comments or questions? Send them to CSNR Intranet.

If you experience technical difficulties with this email or any of the CSNR Fast Facts issues, please contact CSNR Intranet or phone 778-679-4451.

Kyle Yakiwchuk | Web Coordinator (Internal Communications) | Corporate Services for the Natural Resource Sector
Phone: 250.896.4748

From: Waters, Cory EAO:EX
To: Perry, Monica EAO:EX
Subject: Declined: capacity funding follow-up

From: Perry, Monica EAO:EX
To: Evans, Megan J EAO:EX
Subject: Declined: Power and Community Infrastructure Team Meetings

From: LinkedIn
To: Perry, Monica EAO:EX
Subject: Do you know Christian, Simon, or Kursti?
Date: Tuesday, June 28, 2016 12:09:36 AM

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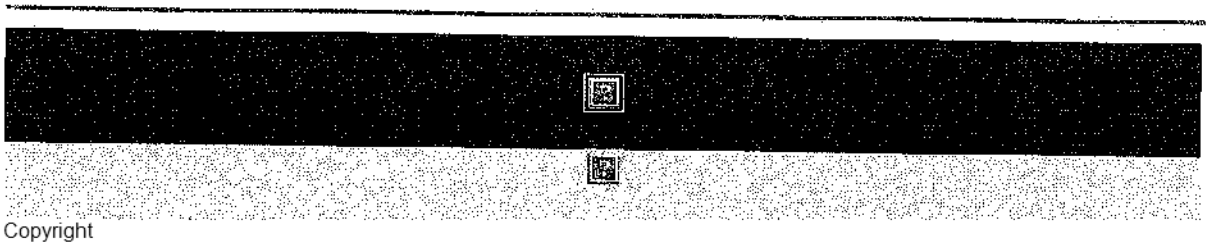
From: Larry Cooper
To: Perry, Monica EAQ:EX
Subject: Does Brexit mean Buy?
Date: Tuesday, June 28, 2016 12:18:13 PM



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From: don fast
To: Perry, Monica EAO:EX
Subject: don fast's invitation is waiting for your response
Date: Monday, June 27, 2016 9:21:47 AM

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From:	Haines, Kate EAO:EX
To:	Jardine, Kevin EAO:EX
Cc:	Nellson, Kirsten EAO:EX; Perry, Monica EAO:EX; Grace, David H EAO:EX; Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject:	EAO - draft presentation for RBT2 panel orientation session
Date:	Monday, June 27, 2016 9:13:33 AM
Attachments:	June 28 Draft PPT presentation.pptx image003.jpg

Good morning Kevin,

Please find attached the draft presentation for tomorrow's presentation to the RBT2 panel orientation session. It is based on the letter sent Friday, and incorporates suggestions from Monica Perry and Paul Craven.

This must be sent over to the panel by noon today – look forward to your comments as soon as you are available.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Perry, Monica EAO:EX
To: Fenton, Chrystal EAO:EX
Subject: EAO Capacity Funding Draft 2
Date: Monday, June 27, 2016 10:42:00 AM
Attachments: EAO Capacity Funding Draft 2.docx

To share with OMT as discussed.

EAO Capacity Funding for participation in Environmental Assessments:

Funding Overview:
EAO's budget increased in 2014/15 to address increased demand for environmental assessments. 750K was offered to agencies to facilitate effective participation in EAs and to assist with the development of guidance and other tools in support of EA reviews. Criteria include:

1. EA dedicated positions
2. Addressing "pinch points"
3. streamlining or process improvements

Outcomes of 2015/15:

- 7 Ministry Positions (5 MOE and 2 FLNRO)
- 5 Project "pinch points" (Blackwater, Murray River, Garibaldi at Squamish, Sukunka and Giscome)
- 6 Guidance and Process Improvement Initiatives ("Legacy Projects")

2016/17 Direction:
Report out at NRS ADMs confirmed the principles for a cross agency working group / steering committee to do the following:

1. Identify anticipated workloads/resource trends
2. Establish a prioritized "project" list – focus on "legacy projects" that would provide process improvements – i.e. What are the bigger pieces that we can fix to support improvements to the EA process.
3. Ensure agency/EAO accountable persons identified as leads who report back to the steering committee and their accountable ADM.

Current Commitments:

- ENV funding provided for bridge funding of key positions ($32,000)
- EAO funding for focused positions ($201,531)
- Elk Valley (BRE Hatfield contract) hydrogeology work ($9,852)
- Remaining $506,617

ED Capacity Steering Committee:
Group met on June 16, 2016 and agreed on overall theme of "proponent readiness" in providing better guidance to proponents to ensure more effective and efficient use of provincial staff time.

Next steps:
ED Steering Committee to clarify and prioritize project list this week. Once candidate projects are confirmed accountable ED and EAO rep will create a workplan for each approved project that sets out purpose (outcomes to be achieved), deliverables, timelines and leads. Candidate projects identified and organized under the following categories:

Category A: "Readiness"
Category B: "Other
Category C: Staffing positions

Category A: Various Projects that support the theme of "Proponent Readiness"

s.13

s.13

Category B: Additional Project List:

s.13

Category C: Staffing:

s.13

From: Fenton, Chrystal EAO:EX
To: EAO Executive Project Directors; EAO Managers; Bates, Julia EAO:EX
Subject: EAO Capacity Funding Draft 2
Date: Monday, June 27, 2016 11:15:57 AM
Attachments: EAO Capacity Funding Draft 2.docx

Good morning, as discussed at OMT please find attached the EAO Capacity Funding document for your information and/or comment (to Monica).

Thanks
Chrystal

Page 2221 to/à Page 2222

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DUPLICATE

From: Larry Cooper
To: Perry, Monica EAO:EX
Subject: [eBook] How to Protect Your Retirement from a 37.7% Drop
Date: Wednesday, June 29, 2016 8:22:29 AM

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From: Rennert-May, Leva EAO:EX on behalf of Carter, Rumon EAO:EX
To: EAO Staff - All
Subject: EPIC All-Staff Training (Option 3)

Further to the New EPIC Test Drive meeting sent out this morning, we will also be having a series of All-Staff Trainings. As Rumon mentioned during the All Staff meeting, these will take place on July 12th, 13th and 14th. Please select and respond to the invite which works best for your schedule.

From: Rennert-May, Leya EAO:EX on behalf of Carter, Rumon EAO:EX
To: EAO Staff - All
Subject: EPIC All-Staff Training (Option 3)

Further to the New EPIC Test Drive meeting sent out this morning, we will also be having a series of All-Staff Trainings. As Rumon mentioned during the All Staff meeting, these will take place on July 12th, 13th and 14th. Please select and respond to the invite which works best for your schedule.

From: Rennert-May, Leya EAO:EX on behalf of Carter, Rumon EAO:EX
To: EAO Staff - All
Subject: EPIC All-Staff Training (Option 2)

Further to the New EPIC Test Drive meeting sent out this morning, we will also be having a series of All-Staff Trainings. As Rumon mentioned during the All Staff meeting, these will take place on July 12th, 13th and 14th. Please select and respond to the invite which works best for your schedule.

From: Rennert-May, Leva EAO:EX on behalf of Carter, Rumon EAO:EX
To: EAO Staff - All
Subject: EPIC All-Staff Training (Option 1)

Further to the New EPIC Test Drive meeting sent out this morning, we will also be having a series of All-Staff Trainings. As Rumon mentioned during the All Staff meeting, these will take place on July 12th, 13th and 14th. Please select and respond to the invite which works best for your schedule.

From: Twitter
To: Perry, Monica EAO:EX
Subject: Follow John Alan Jack, The Baby Elephant and nicholashutchings on Twitter!
Date: Monday, June 27, 2016 3:30:55 PM

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From:	Perry, Monica EAO:EX
To:	Foote, Sheldon EAO:EX
Subject:	FW: **FINAL FOR ADM REVIEW: NRS ADM presentation- EAO Capacity funds
Date:	Wednesday, June 29, 2016 2:35:00 PM
Attachments:	NRS ADM Presentation EAO Capacity Funds - FINAL.pptx Attachment- If needed, further Detail on Project Statistics (May 10).docx 104407_Memo to WShoemaker-DNikolejsin-TSheldan_Capacity Funding_July2014_...pdf

---

From: Bates, Julia EAO:EX
Sent: Tuesday, May 10, 2016 5:40 PM
To: Carr, Michelle EAO:EX
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX
Subject: **FINAL FOR ADM REVIEW: NRS ADM presentation- EAO Capacity funds

Hi Michelle,
Please find attached the NRS ADM presentation on EAO Capacity Funds. I have made the edits that were compiled during today's OLC meeting, including:

1. Updating the project stats (see attachment for further detail);
2. Adding the reference to the project that was completed last fiscal re: Effectiveness of Water Quality Conditions;
3. Separating the bullets on slide 6 in regards to project workload – to emphasize increased FN collaboration efforts; and
4. Amending the next steps slide to highlight ADM confirmation of funding principles.

Attachments for yours/Monica's back-pocket include:

- Attachment 1- Further detail on project statistics
- Attachment 2- DM memo from July 2014 on Capacity Funding- includes breakout of funding principles

Let me know if you need more for Thursday, happy to pull something together.

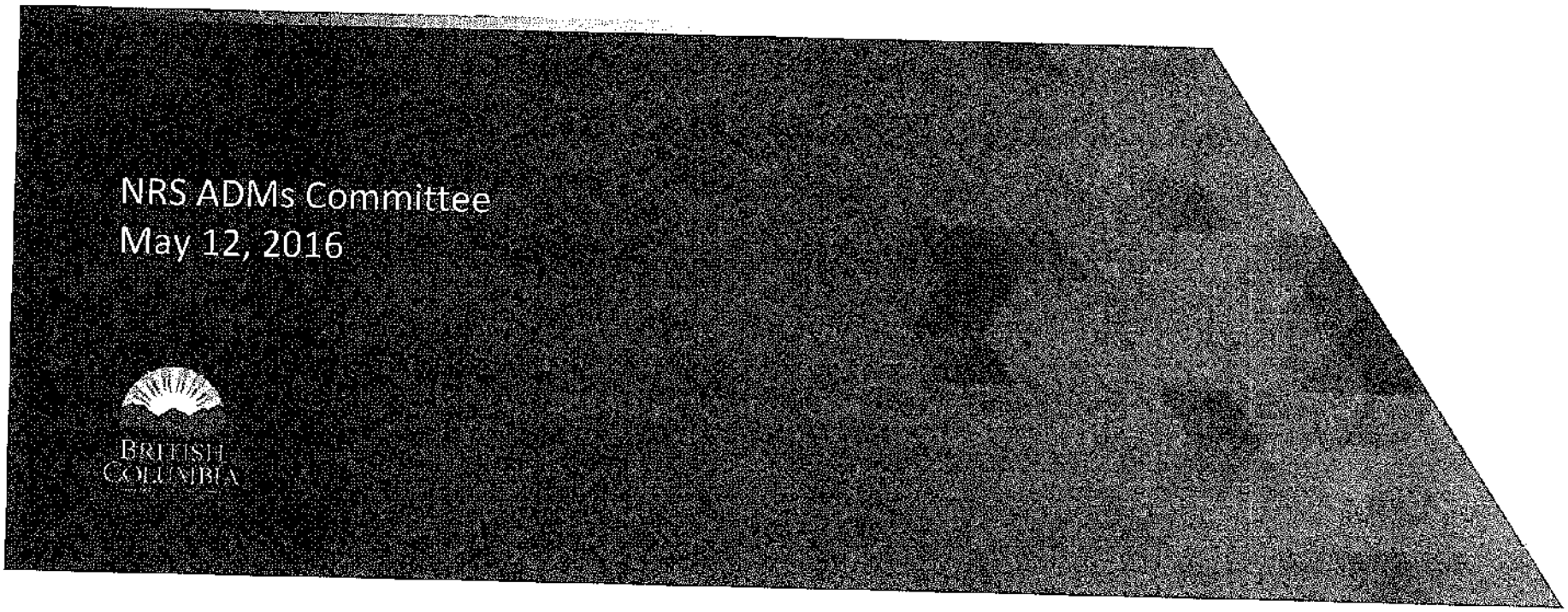
Thanks!

Julia Bates
Manager, EA Operations
Environmental Assessment Operations
BC Environmental Assessment Office
T: 250-356-7490

EAO | Environmental Assessment Office

Capacity Funding for participation in Environmental Assessments:

Report Out and Next Steps



Overview of EAO Capacity Fund Process

- EAO budget increased, beginning 2014/15, to address increased demand for environmental assessments.
- For 2015/16 $750k was offered to agencies to facilitate effective participation in EAs and to assist with the development of guidance and other tools in support of the EAO Review objectives of timeliness, certainty, transparency, predictability of process, and increased collaboration and decreased overlap with permitting agencies.
- Criteria includes: EA dedicate positions, addressing "pinch points", streamlining or process improvements and efficiencies.

Key Outcomes of 2015/16 EAO Capacity Fund Process

- **Total of $750k distributed ($394.5k MOE; $355.5k FLNR).**
- **7 ministry positions (5 MOE; 2 for FLNR).**
- **Development of guidance documents that will be useful for future EA reviews to improve processes:**
    1. *Elk Valley Cumulative Effects Framework (on-going)*
    2. *Blackwater Cariboo Plan (on-going)*
    3. *Advancing the QP Questionnaire*
    4. *Invertebrate Drift*
    5. *Wind Sector Supplemental AIR*
    6. *Water Quality Objectives*
- **Funding was provided to support 5 project specific "pinch points" (Blackwater, Murray River, Garibaldi at Squamish, Sukunka and Giscome).**

Deeper Dive – Clean Energy Sector

- **Downturn in Energy Projects (Wind and Water Power) entering EAO.**
- **Numerous projects in operation or being currently being commissioned.**
- **Proactive time to reflect and prepare for when current status changes, allows for the following:**
  - Opportunity to initiate process improvements;
  - Assess effectiveness of key initiatives;
  - Allows gov't to be more responsive to industry; and,
  - Strategic planning for other sectors (i.e. apply lessons-learned).

Deeper Dive – Clean Energy Sector
Outcomes of Completed Projects

- **Advancing the QP Questionnaire:**
  Outcome: Critical industry (power sector) engagement occurred. Highlighted areas of improvements, and need for further FLNRO policy work prior to broader industry engagement and implementation.

- **Invertebrate Drift:**
  Outcome: Report questions value of very expensive monitoring and makes recommendations on better ways to assess fish habitat.

- **Wind Sector Supplemental AIR:**
  Outcome: Basis for standardized guidance to wind proponents.

- **Effectiveness of Water Power Project Conditions:**
  Outcome: Canvassed IEM to gain their insight and recommendations on improving EA certificate conditions. Valuable "on the ground" experiences obtained.

Casting Forward – Key Trends by Sector

- 2016 project workload remains as high as during the peak of LNG in 2014.
- EAO is experiencing an increased workload associated with projects post-certification and those with complex FN issues related to agreements/enhanced collaboration.

	Projects – Pre-app	Projects – App Review	Projects – other
LNG / OIL AND GAS			
2014	4	4	1
2016	5	2	8
MINING			
2014	9	3	2
2016	7	6	9
TRANSPORTATION/OTHER			
2014	3	2	8
2016	6	0	10

Next Steps – Affirm Funding Principles for 2016/17

- **NRB report**
- **ADMs to confirm whether principles set out in 2014/15 need to be refreshed**
- **Cross-agency working group proposes to:**
  - Identify anticipated workload/resource trends;
  - Establish a prioritized "project" list - legacy and project-specific ;
  - Ensure agency/EAO accountable persons identified as leads;
  - Develop a work plan for each initiative; and,
  - Report back to NRS ADMs at regular intervals.

Questions / Discussion?

BRITISH COLUMBIA

Environmental Assessment Office

MEMORANDUM

File: 1000-20

Ref: 104407

Date: July 25, 2014

To: Wes Shoemaker, Deputy Minister, ENV
Tim Sheldan, Deputy Minister, FLNR
Dave Nikolejsin, Deputy Minister, MEM

Re: Capacity Funding for Environmental Assessments

The Environmental Assessment Office's (EAO) budget was increased by $2.96 million for the next three years to address increased demand for environmental assessments (EA) of LNG and other projects. To achieve this, two critical success factors are the completion of the EAO Review and effective and timely technical advice provided by other ministries (in particular MEM, MOE and FLNR) through participation in EA working groups and development of guidance to increase certainty and efficiencies.

As discussed on June 9, 2014 at the Natural Resources Board (NRB), the EAO will provide up to $750K to other agencies to facilitate effective participation in EAs and the development of guidance and other tools in support of the EAO Review objectives. A core group of ADMs worked with Michelle Carr, ADM of EA Operations to confirm guiding principles, process and strategic priorities for the next 3 years. This memorandum confirms the funding provided in FY 2014/15 consistent with that work. I understand that discussions are also underway to confirm the scope of specific contracts and expect that these will be confirmed in September.

I am also providing you with the evaluation criteria that will be used at the end of 2014/15 to assess how the positions/initiatives met the guiding principles and priorities developed by the ADMs. It is my intent to report out to the NRB on this evaluation.

Evaluation criteria:

1. Positions (or portions of positions as identified below) must be dedicated to supporting ministry review of proposed EA projects to provide timely technical advice.
2. Each position and/or initiative must address at least one of the following processes/outcomes:
   - Support for meeting the objectives of the EAO Review;
   - Support for NRS activities that achieve streamlining, better coordination and/or overall decrease in duration of an EA;

- Results in overall reduction of resources required to conduct EAs (e.g., through development or clarification of requirements and/or reduction in overlap between EA and permitting work);
- Are of benefit to more than one project review;
- Addresses project specific pinch points and will result in timely completion of EA.

Journal vouchers to recover the costs listed below should be submitted to Vickie Simpson, Business Services Coordinator, EAO no later than December 31, 2014.

In closing, I would like to thank and acknowledge the collaborative approach and feedback provided by the ADMs in this exercise.

Sincerely,



Doug Caul
Associate Deputy Minister

cc: Michelle Carr
Assistant Deputy Minister

If needed- further detail on project statistics (2014 vs 2016)

	Projects – Pre-app	DETAIL Projects – Pre-app	Projects – App Review	DETAIL Projects – App Review	Projects – other	DETAIL Projects – other (amendments; exemptions; post-certificate)
LNG / OIL AND GAS						
2014	4	*Eagle Mountain;* *Prince Rupert LNG;* *Woodfibre LNG;* *PNGL*	4	*Pacific NorthWest LNG;* *Prince Rupert Gas Transmission;* *Westcoast Connector;* *LNG Canada*	1	*Pacific Trail Pipeline*
2016	5	*Aurora;* *Grassy Point LNG;* *Prince Rupert LNG;* *WCC LNG;* *Pacific Northern Gas*	2	*NEBC Expansion;* *Eagle Mountain- Woodfibre Gas*	8	*Coastal Gaslink - Morice River Amendment;* *PRGT - Nass Camp Amendment;* *PRGT - Mt Milligan Amendment;* *Vancouver Airport Fuel Delivery;* *North Montney Mainline;* *Towerbirch Expansion;* *Trans Mountain Expansion;* *Enbridge Northern Gateway*
MINING						
2014	9	*Giscome;* *Sukunka;* *Raven;* *Burnco;* *Fording River;* *Arctos;* *Harper Creek;* *Blackwater;* *Ajax*	3	*Brucejack Gold;* *Morrison;* *Murray River*	2	*Line Creek Phase II;* *Prosperity*
2016	7	*Bingay;* *Coal Mountain Phase 2;* *Crown Mountain;* *Michel Creek;* *Red Mountain;* *Kootenay West;* *Burnco*	6	*Ajax;* *Blackwater;* *Giscome;* *Sukunka;* *Baldy Ridge Extension;* *Kemess Underground*	9	*Brucejack Gold Mine Amendment #2;* *Mt. Polley Copper;* *Prosperity;* *Red Chris;* *Ruby Creek;* *Brucejack Management Plans/Conditions;* *Dazo Creek/Komie North Section 6 request;* *Harper Creek;* *Morrison Copper/Gold*

If needed- further detail on project statistics (2014 vs 2016)

TRANSPORTATION/OTHER						
2014	3	*Nulki Hills;* *Rocky Creek;* *James White Park*	2	*Garibaldi at Squamish;* *Wildmare*	8	*Silverberry Landfill;* *Chemainus Wells;* *Peace Valley OSB;*
2016	6	*Revelstoke Generating Station Unit 6;* *Nulki Hills Wind;* *Red Willow Wind;* *Roberts Bank Terminal 2;* *George Massey Tunnel;* *WesPac Tilbury*	0		10	*Chemainus Wells Water Supply;* *Cranbrook Deep Wells;* *Forrest Kerr;* *Silverberry Secure Landfill;* *Nahwitti Wind Farm;* *Terminal A Management Plan Review;* *Wartenbe Wind Energy;* *Point Grey Tidal Marsh;* *South Arm Jetty Tidal Marsh;* *Tsawwassen Eelgrass*

From:	Perry, Monica EAO:EX
To:	Haines, Kate EAO:EX; Hamblin, Gerry EAO:EX; Dunae, Vanessa EAO:EX; Batty, Adam EAO:EX; Hardie, Karie EAO:EX; Denis, Alex EAO:EX; Foote, Sheldon EAO:EX
Subject:	FW: Amendment Guidance
Date:	Monday, June 27, 2016 12:22:00 PM
Attachments:	Amendment Report Template_May_2016.docx Certificate Amendments- Staff Procedures June 2015 New Format (KKC).docx Certificate Holder Guidance - Amendments to EAC_June 2016.docx

Hi team, just an FYI on this email. I have shared earlier versions with some of you working on amendments but attached is the most recent.

From: Craven, Paul EAO:EX
Sent: Monday, June 27, 2016 8:19 AM
To: EAO Executive Project Directors
Cc: Carr, Michelle EAO:EX; Scraba, Erin H EAO:EX; Fenton, Chrystal EAO:EX; Cheema, Kashmiro K EAO:EX; Craven, Paul EAO:EX
Subject: Amendment Guidance

Hello all,

s.13

s.13

If you have questions, please let me know.

Paul

Page 2245 to/à Page 2256

Withheld pursuant to/removed as

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Page 2257 to/à Page 2266

Withheld pursuant to/removed as

s.13

From:	Perry, Monica EAO:EX
To:	Craven, Paul EAO:EX
Cc:	Haines, Kate EAO:EX
Subject:	FW: BC EAO & provincial ministries Roberts Bank Terminal 2 Project Review Panel Process response
Date:	Monday, June 27, 2016 12:15:00 PM
Attachments:	image001.jpg 301464 Response re Federal Panel RBT2 24June2016-signed.pdf

I sent it on Friday, but here it is again.

From: Perry, Monica EAO:EX
Sent: Friday, June 24, 2016 4:09 PM
To: Craven, Paul EAO:EX; Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject: FW: BC EAO & provincial ministries Roberts Bank Terminal 2 Project Review Panel Process response

From: Loiacono, Sabrina EAO:EX **On Behalf Of** Jardine, Kevin EAO:EX
Sent: Friday, June 24, 2016 3:59 PM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Carr, Michelle EAO:EX
Subject: BC EAO & provincial ministries Roberts Bank Terminal 2 Project Review Panel Process response

Dear Ms. Beaudet:

Please see the attached letter, regarding the Panel's request, which includes EAO's response as well as the responses from each of the provincial agencies who received a letter from the federal panel.

With very best regards,
K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

email_signature

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From: Perry, Monica EAO:EX
To: McGuire, Jennifer ENV:EX
Cc: Murphy, Shelley EAO:EX; Christie, Karen L EAO:EX; Foote, Sheldon EAO:EX
Subject: FW: EAO Capacity Funding Discussion
Date: Wednesday, June 29, 2016 1:40:00 PM
Attachments: EAO Capacity Funding Draft 2.docx

Here is a quick overview of what we discussed. I think it is still missing a bit more on how it supports EA projects, so feel free to add anything that you think can capture that. I am copying Shelley and Karen as well as mining sector leads.

s.13,s.17

We need to land whether or not these projects are good candidates based on the criteria set out by the ADM. I will talk to Shelley and Karen as well to see if they observations and or comments on priority. Jennifer, you referenced Elk Valley a few times in our discussion.

From: Perry, Monica EAO:EX
Sent: Monday, June 20, 2016 8:16 AM
To: Carr, Michelle EAO:EX
Cc: Fenton, Chrystal EAO:EX
Subject: FW: EAO Capacity Funding Discussion

Here is the one pager (actually 2 pages!) on the Capacity funding. I still need to do more work this week with the EDs to get a better list. Overall, the key message would be that we would like to focus on projects that will ensure proponents are better prepared when they enter the process. It would be an inter-agency approach (as all of the agencies see the need

to ensure that we limit staff time on unprepared proponents).

Monica.

From: Perry, Monica EAO:EX
Sent: Monday, June 20, 2016 8:13 AM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

Version 2 Attached. Thanks everyone who quickly provided response! This is still very draft.

Jennifer: could I get more info on the 3 projects you identified?

Brenda: I included items from our discussion, please review and edit. Could you also confirm that FLNRO is seeking staffing funding. As discussed, it seems inconsistent with what Michelle has said to me, but please confirm.

All: any sense of priority? Perhaps even a high, medium or low? Scott, thanks for your thoughts on prioritizing – I have included those. Could others do that as well?

Many thanks everyone, and apologies if I missed something. I will continue to work on this early this week, provide Michelle with this draft version (I think she just needs a sense of where we are going). I would very much appreciate any further edits, comments, etc.

I am also going to get Sheldon to create a table with all of the proposed projects to begin tracking our decisions.

Monica.

From: Perry, Monica EAO:EX
Sent: Thursday, June 16, 2016 6:40 PM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

Thanks again for a very productive discussion today. Attached is a one pager that I will share with Michelle. You will note that I may not have accurately captured the project, so please edit away and provide clarity on what the project is, deliverable etc.. Note: we will need enough info to ensure that the objective is clear.

If everyone could get back to me asap with their comments and top 2-3 projects that you think will provide the greatest efficiencies (i.e. greatest process improvements and or

reduced time on staff). I will send around the final version as well. I am proposing to send this to Michelle by noon Friday. Many thanks.

<< File: EAO Capacity Funding.docx >>

From: Perry, Monica EAO:EX
Sent: Thursday, June 16, 2016 8:19 AM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

Hi all, for those of you joining in person, we are in the EAO 1st floor boardroom. Monica.

-----Original Appointment-----
From: Perry, Monica EAO:EX
Sent: Thursday, June 2, 2016 10:33 AM
To: Perry, Monica EAO:EX; Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: EAO Capacity Funding Discussion
When: Thursday, June 16, 2016 9:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: EAO R 2nd Floor Large Boardroom EAO:EX

Conference call info:

s.17

Moderator: Monica

Hi all, this time seemed to work for many of you. We will need to get this underway fairly quickly. For those of you unable to make the meeting. I will follow up with you to ensure that we have good communication with your delegate.

Many thanks, please call if you have any questions.

<< Message: FW: Follow up: EA Capacity Funding discussion with ADMs >>

Page 2271 to/à Page 2272

Withheld pursuant to/removed as

DUPLICATE

From: Perry, Monica EAO:EX
To: Dale, Alec R ENV:EX; Gawalko, Lyle ENV:EX
Cc: Foote, Sheldon EAO:EX
Subject: FW: EAO Capacity Funding Discussion
Date: Wednesday, June 29, 2016 4:42:00 PM
Attachments: EAO Capacity Funding Draft 2.docx

Hi Alec, I see from your out of office that you are away this week but not sure if you are checking emails as it looks like Lyle isn't acting until next week. I am therefore copying you both. Thanks for putting these items forward in our brainstorming session. I do need to have a sense of how much you think the contract/s would be. It would also be great to hear which are you top priorities, but I think that the first 2 were higher priority for you. I am going to need to make some recommendations to Michelle early next week, so it would be good if I could hear back from someone on your group.

s.13

From: Perry, Monica EAO:EX
Sent: Monday, June 20, 2016 8:13 AM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

Version 2 Attached. Thanks everyone who quickly provided response! This is still very draft.

Jennifer: could I get more info on the 3 projects you identified?

Brenda: I included items from our discussion, please review and edit. Could you also confirm that FLNRO is seeking staffing funding. As discussed, it seems inconsistent with what Michelle has said to me, but please confirm.

All: any sense of priority? Perhaps even a high, medium or low? Scott, thanks for your thoughts on prioritizing – I have included those. Could others do that as well?

Many thanks everyone, and apologies if I missed something. I will continue to work on this early this week, provide Michelle with this draft version (I think she just needs a sense of

where we are going). I would very much appreciate any further edits, comments, etc.

I am also going to get Sheldon to create a table with all of the proposed projects to begin tracking our decisions.

Monica.

From: Perry, Monica EAO:EX
Sent: Thursday, June 16, 2016 6:40 PM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

Thanks again for a very productive discussion today. Attached is a one pager that I will share with Michelle. You will note that I may not have accurately captured the project, so please edit away and provide clarity on what the project is, deliverable etc.. Note: we will need enough info to ensure that the objective is clear.

If everyone could get back to me asap with their comments and top 2-3 projects that you think will provide the greatest efficiencies (i.e. greatest process improvements and or reduced time on staff). I will send around the final version as well. I am proposing to send this to Michelle by noon Friday. Many thanks.

<< File: EAO Capacity Funding.docx >>

From: Perry, Monica EAO:EX
Sent: Thursday, June 16, 2016 8:19 AM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

Hi all, for those of you joining in person, we are in the EAO 1st floor boardroom. Monica.

-----Original Appointment-----
From: Perry, Monica EAO:EX
Sent: Thursday, June 2, 2016 10:33 AM
To: Perry, Monica EAO:EX; Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: EAO Capacity Funding Discussion
When: Thursday, June 16, 2016 9:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: EAO R 2nd Floor Large Boardroom EAO:EX

Conference call info:

s.17

Moderator: Monica

Hi all, this time seemed to work for many of you. We will need to get this underway fairly quickly. For those of you unable to make the meeting. I will follow up with you to ensure that we have good communication with your delegate.

Many thanks, please call if you have any questions.

<< Message: FW: Follow up: EA Capacity Funding discussion with ADMs >>

Page 2276 to/à Page 2277

Withheld pursuant to/removed as

DUPLICATE

From: Perry, Monica EAO:EX
To: Perry, Monica EAO:EX
Subject: s.12
Date:
Attachments:

From: Scraba, Erin H EAO:EX
Sent: Monday, June 27, 2016 1:03 PM
To: Perry, Monica EAO:EX
Cc: Craven, Paul EAO:EX
Subject: RE: s.12

s.12

From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 11:58 AM
To: Scraba, Erin H EAO:EX
Cc: Craven, Paul EAO:EX
Subject: RE: s.12

Yes will do. A good heads up Erin. FYI: I did ask at one point for the specifics around the TB direction (I asked to see the minute) cs.12,s.13
s.12,s.13 . If you could share the minute (or the specific wording around it) that would be great as I agree, that we could get asked especially if there is specific wording. Many thanks.

From: Scraba, Erin H EAO:EX
Sent: Monday, June 27, 2016 11:46 AM
To: Perry, Monica EAO:EX
Cc: Craven, Paul EAO:EX
Subject: FW: s.12

Further to my comment cs.13 , please keep
Cheryl in the loop around decisions to s.12,s.13 We

may be asked to report back to Treasury Board at some point.

e

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 11:16 AM
To: EAO Executive Project Directors; EAO Managers; Bates, Julia EAO:EX
Subject: s.12

Good morning, as discussed at OMT please find attached the [s.12] for your information and/or comment (to Monica).

Thanks
Chrystal

Page 2280 to/à Page 2300

Withheld pursuant to/removed as

s.12;s.13

From: Perry, Monica EAO:EX
To: Perry, Monica EAO:EX
Subject: FW: EAO Capacity Funding Draft 2
Date: Wednesday, June 29, 2016 4:40:00 PM
Attachments: EAO Capacity Funding Draft 2.docx

From: Scraba, Erin H EAO:EX
Sent: Monday, June 27, 2016 11:46 AM
To: Perry, Monica EAO:EX
Cc: Craven, Paul EAO:EX
Subject: FW: EAO Capacity Funding Draft 2

Further to my comment around the conditions attached to our budget lift in 2014, please keep Cheryl in the loop around decisions to change the capacity funding structure and allocation. We may be asked to report back to Treasury Board at some point.

e

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 11:16 AM
To: EAO Executive Project Directors; EAO Managers; Bates, Julia EAO:EX
Subject: EAO Capacity Funding Draft 2

Good morning, as discussed at OMT please find attached the EAO Capacity Funding document for your information and/or comment (to Monica).

Thanks
Chrystal

Page 2302 to/à Page 2303

Withheld pursuant to/removed as

DUPLICATE

From: Haines, Kate EAO:EX
To: Perry, Monica EAO:EX
Subject: Fwd: EAO Capacity Funding Draft 2
Date: Tuesday, June 28, 2016 1:40:32 PM
Attachments: EAO Capacity Funding Draft 2.docx
ATT00001.htm

Should I speak to the messages that Michelle gave at nrs Adms on capacity funding? Eg focus on high impact legacy projects? Just want to make sure it's ok to share outside gvt

Begin forwarded message:

> **From:** "Fenton, Chrystal EAO:EX" <Chrystal.Fenton@gov.bc.ca>
> **Date:** June 27, 2016 at 11:15:55 AM PDT
> **To:** EAO Executive Project Directors <EAOPODLE@Victoria1.gov.bc.ca>, EAO Managers <EAOMGR@Victoria1.gov.bc.ca>, "Bates, Julia EAO:EX" <Julia.Bates@gov.bc.ca>
> **Subject: EAO Capacity Funding Draft 2**
>
> Good morning, as discussed at OMT please find attached the EAO Capacity Funding document for your information and/or comment (to Monica).
>
> Thanks
> Chrystal

Page 2305 to/à Page 2306

Withheld pursuant to/removed as

DUPLICATE

From: Perry, Monica EAO:EX
To: Foote, Sheldon EAO:EX
Subject: FW: FLNRO EAO Capacity Funding Proposed Projects 2016 17.xlsx
Date: Wednesday, June 29, 2016 2:23:00 PM
Attachments: FLNRO EAO Capacity Funding Proposed Projects 2016 17.xlsx

---

From: Hartley, Brenda FLNR:EX
Sent: Friday, June 17, 2016 3:14 PM
To: Perry, Monica EAO:EX
Subject: FLNRO EAO Capacity Funding Proposed Projects 2016 17.xlsx

To help fill in the blanks. Please don't share.

Page 2308 to/à Page 2312

Withheld pursuant to/removed as

s.13;s.17

From:	Perry, Monica EAO:EX
To:	Grace, David H EAO:EX; Haines, Kate EAO:EX
Subject:	FW: GTCF Description
Date:	Monday, June 27, 2016 11:08:00 AM

From: Gow, Lisa A TRAN:EX
Sent: Friday, June 24, 2016 5:06 PM
To: Perry, Monica EAO:EX
Cc: Marr, David TRAN:EX; Berthin, Helen C TRAN:EX; Chen, Yongmei TRAN:EX
Subject: GTCF Description

Here's our recommended position:

Description

- Port of Vancouver established the Gateway Transportation Collaboration Forum(GTCF), which includes representation from Transport Canada, the BC Ministry of Transportation and Infrastructure, Translink, and the Greater Vancouver Gateway Council
- The GTCF is a forum to collaboratively identify potential operational and/or infrastructure improvements necessary to support the growth of all commodities in the Lower Mainland and to address impacts to host communities.
- GTCF Steering Committee and working groups are engaging directly with municipalities, Aboriginal groups and stakeholders. Furthermore, municipal interests are directly represented on the Steering Committee through Translink.
- Decisions on which projects will move forward will depend on business cases and funding commitments from respective parties.

From: Perry, Monica EAO:EX
To: Hamblin, Gerry EAO:EX
Subject: FW: Lazo Road Shoreline in Comox BC
Date: Wednesday, June 29, 2016 9:42:00 AM

FYI only, I believe you pointed this project out to me a few months ago.

I spoke with her yesterday, and I will respond this week. But wondering if you have any more context.

From: s.22
Sent: Tuesday, June 28, 2016 10:20 PM
To: Perry, Monica EAO:EX
Subject: Lazo Road Shoreline in Comox BC

Monica,
I had talked to you earlier today and thank you for giving me that time. I do feel that the project I am working on is Urgent, but I suppose everyone feels that way. The project has voluntarily stopped work because the Town of Comox neglected to get the appropriate permit from FLNRO, which permit application is in process as we speak.....but the reprieve is a temporary one. As of last week there was one big piece of equipment to do the work. Today another one was moved in and when the project commences again the beach will be destroyed at twice the pace.

Because there was no permit in place the Town of Comox was trespassing on the Foreshore and disrupting the subject lands.

I did check the EAO Regulation and the length of the affected shoreline, to give an assessment trigger, must be greater than 1000 metres. The portion of foreshore included in the Lazo Road proposal is quoted as being 640 metres so there will be no 'trigger'.

Notwithstanding the length I would propose that the project be selected for an Environmental Assessment. Firstly, the area was used as a midden for many generations by the aboriginals and there is ample evidence to indicate same. I do not know that enough consideration was given to First Nation rights. Also, the project may compromise the biological capacity of the foreshore. As the beach presently exists it is a part of the feeding grounds for the many varieties of migrating birds that winter here.

Thirdly, Comox Valley has been disrupting natural sediment travel on the shore for approximately three decades and the armouring that is proposed in the subject project continues the disruption which exacerbates the problem even more. The result is Goose Spit, in the Town of Comox, is drying up. It was once a class I beach (sand) and is now a beach with lots of exposed cobble with remnants of sand pockets.

I am hoping for some consideration by you and your Department on this project.
Thank you again for your time with the above.

Yours truly,
s.22

From: Perry, Monica EAO:EX
To: Gow, Lisa A TRAN:EX
Cc: Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject: FW: Meeting: RBT2 FRT Panel Orientation Session Prep
Date: Monday, June 27, 2016 12:37:00 PM
Attachments: RBT2 GoC presentations.pdf

Lisa, FYI only. I think you would be most interested out of provincial presenters in the federal presentations.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 12:34 PM
To: Perry, Monica EAO:EX
Subject: FW: Meeting: RBT2 FRT Panel Orientation Session Prep

From: Saely,Analise [CEAA] [mailto:Analise.Saely@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 12:27 PM
To: Cindy Hubbard; Clint Carl; Crampton,Stefan [CEAA]; RobertsBankT2 [PYR]; Eleanor Setton; Eusebio, Paulo: AANDC; Funk, Lindsay: DFO; Galbrand, Catherine: TC; Gilbert, Nadia: DFO; Gill,Harp [PYR]; Aitchison, Gina: TC; graham.irvine@hc-sc.gc.ca; Heap, David: DFO; Heather Cherry; Beavis, Katherine: TC; Kathy McPherson; Leung,David [PYR]; Lucille Lukey; Maisonneuve,Elyse [CEAA]; McLean,Robyn [CEAA]; meaghan.ferguson@tc.gc.ca; Mercer, Janet: PCA; Mullins,Garth [PYR]; Ogston, Leigh: AANDC; O'Keefe, Sarah: TC; Rifkin,June Yoo [PYR]; Rosset, Daniel: PCA; kirsten.sellers@tc.gc.ca; Simpson, Jennifer: DFO; Stapleton, Peter: DFO; Surch, Matthew: DFO; Richardson, Tessa: DFO; Whiteside, Joseph: AANDC; Woodward, John: CTA; Gluck, Stephen: DFAIT; Haines, Kate EAO:EX; Grace, David H EAO:EX; Tsang, Jason: CTA
Cc: Rifkin, June Yoo (EC); Leung, David (EC); Gill, Harp (EC); Irvine2, Graham (HC/SC); Evans, Clay: DFO; Jason Tsang; Leigh Ogston; Beavis, Katherine; Evans, Clay; Simpson, Jennifer
Subject: RE: Meeting: RBT2 FRT Panel Orientation Session Prep

Hi everyone, as promised here is the collection of presentations from the federal departments. Please take a quick look through and we can discuss any possible cross cutting issues on our call in half an hour. Thanks.

<<RBT2 GoC presentations.pdf>>

Analise Saely
604-666-9169

-----Original Appointment-----
From: Saely,Analise [CEAA]
Sent: June 23, 2016 9:01 AM
To: Saely,Analise [CEAA]; 'Cindy Hubbard'; 'Clint Carl'; Crampton,Stefan [CEAA]; RobertsBankT2 [PYR]; 'Eleanor Setton'; Eusebio, Paulo: AANDC; Funk, Lindsay: DFO; Galbrand, Catherine: TC; Gilbert, Nadia: DFO; Gill,Harp [PYR]; Aitchison, Gina: TC; 'graham.irvine@hc-sc.gc.ca'; Heap, David: DFO; 'Heather Cherry'; Beavis, Katherine: TC; 'Kathy McPherson'; Leung,David [PYR]; 'Lucille Lukey'; Maisonneuve,Elyse [CEAA]; McLean,Robyn [CEAA]; 'meaghan.ferguson@tc.gc.ca'; Mercer, Janet: PCA; Mullins,Garth [PYR]; Ogston, Leigh: AANDC; O'Keefe, Sarah: TC; Rifkin,June Yoo [PYR]; Rosset, Daniel: PCA; Saely,Analise [CEAA]; 'Sellers, Kirsten (kirsten.sellers@tc.gc.ca)'; Simpson, Jennifer: DFO; Stapleton, Peter: DFO; Surch, Matthew: DFO; Richardson, Tessa: DFO; Whiteside, Joseph: AANDC; Woodward, John: CTA; Gluck, Stephen: DFAIT; 'Haines, Kate EAO:EX'; 'Grace, David H EAO:EX'; Tsang, Jason: CTA

Cc: 'Rifkin, June Yoo (EC)'; 'Leung, David (EC)'; 'Gill, Harp (EC)'; 'Irvine2, Graham (HC/SC)'; Evans, Clay: DFO; Jason Tsang; Leigh Ogston; Beavis, Katherine; Evans, Clay; Simpson, Jennifer
Subject: Meeting: RBT2 FRT Panel Orientation Session Prep
When: June 27, 2016 1:00 PM-2:00 PM (UTC-08:00) Pacific Time (US & Canada).
Where: CEAA Office 401-701 West Georgia (Canada Room) / Teleconference Dial-in:1 877-413-4790 code: 7058843

Hi everyone, this is a chance for the federal government department's to touch base prior to presenting to the panel the next day. As Robyn noted the presentations are due in to the panel "no later than **Monday June 27, 2016 at 12:00 pm PST**. Presentations should be in powerpoint format. All submissions are to be sent to the Review Panel at Panel.RBT2@ceaa.gc.ca."

Please cc me on your power point submissions to the panel and I will PDF them all into one document and circulate them back to all of you prior this meeting so we can have a chance to take a look through each department's submissions and have an opportunity to ask each other any questions of clarification on cross cutting issues. Thank you.

<< Message: RBT2 Orientation Session Update >>

- Remote presentation logistics (Robyn)
- Media

From: Haines, Kate EAO:EX
To: Perry, Monica EAO:EX
Subject: FW: Meeting: RBT2 FRT Panel Orientation Session Prep
Date: Monday, June 27, 2016 12:34:21 PM
Attachments: RBT2 GoC presentations.pdf

From: Saely,Analise [CEAA] [mailto:Analise.Saely@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 12:27 PM
To: Cindy Hubbard; Clint Carl; Crampton,Stefan [CEAA]; RobertsBankT2 [PYR]; Eleanor Setton; Eusebio, Paulo: AANDC; Funk, Lindsay: DFO; Galbrand, Catherine: TC; Gilbert, Nadia: DFO; Gill,Harp [PYR]; Aitchison, Gina: TC; graham.irvine@hc-sc.gc.ca; Heap, David: DFO; Heather Cherry; Beavis, Katherine: TC; Kathy McPherson; Leung,David [PYR]; Lucille Lukey; Maisonneuve,Elyse [CEAA]; McLean,Robyn [CEAA]; meaghan.ferguson@tc.gc.ca; Mercer, Janet: PCA; Mullins,Garth [PYR]; Ogston, Leigh: AANDC; O'Keefe, Sarah: TC; Rifkin,June Yoo [PYR]; Rosset, Daniel: PCA; kirsten.sellers@tc.gc.ca; Simpson, Jennifer: DFO; Stapleton, Peter: DFO; Surch, Matthew: DFO; Richardson, Tessa: DFO; Whiteside, Joseph: AANDC; Woodward, John: CTA; Gluck, Stephen: DFAIT; Haines, Kate EAO:EX; Grace, David H EAO:EX; Tsang, Jason: CTA
Cc: Rifkin, June Yoo (EC); Leung, David (EC); Gill, Harp (EC); Irvine2, Graham (HC/SC); Evans, Clay: DFO; Jason Tsang; Leigh Ogston; Beavis, Katherine; Evans, Clay; Simpson, Jennifer
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Hi everyone, as promised here is the collection of presentations from the federal departments. Please take a quick look through and we can discuss any possible cross cutting issues on our call in half an hour. Thanks.

<<RBT2 GoC presentations.pdf>>

Analise Saely
604-666-9169

-----Original Appointment-----
From: Saely,Analise [CEAA]
Sent: June 23, 2016 9:01 AM
To: Saely,Analise [CEAA]; 'Cindy Hubbard'; 'Clint Carl'; Crampton,Stefan [CEAA]; RobertsBankT2 [PYR]; 'Eleanor Setton'; Eusebio, Paulo: AANDC; Funk, Lindsay: DFO; Galbrand, Catherine: TC; Gilbert, Nadia: DFO; Gill,Harp [PYR]; Aitchison, Gina: TC; 'graham.irvine@hc-sc.gc.ca'; Heap, David: DFO; 'Heather Cherry'; Beavis, Katherine: TC; 'Kathy McPherson'; Leung,David [PYR]; 'Lucille Lukey'; Maisonneuve,Elyse [CEAA]; McLean,Robyn [CEAA]; 'meaghan.ferguson@tc.gc.ca'; Mercer, Janet: PCA; Mullins,Garth [PYR]; Ogston, Leigh: AANDC; O'Keefe, Sarah: TC; Rifkin,June Yoo [PYR]; Rosset, Daniel: PCA; Saely,Analise [CEAA]; 'Sellers, Kirsten (kirsten.sellers@tc.gc.ca)'; Simpson, Jennifer: DFO; Stapleton, Peter: DFO; Surch, Matthew: DFO; Richardson, Tessa: DFO; Whiteside, Joseph: AANDC; Woodward, John: CTA; Gluck, Stephen: DFAIT; 'Haines, Kate EAO:EX'; 'Grace, David H EAO:EX'; Tsang, Jason: CTA
Cc: 'Rifkin, June Yoo (EC)'; 'Leung, David (EC)'; 'Gill, Harp (EC)'; 'Irvine2, Graham (HC/SC)'; Evans, Clay: DFO; Jason Tsang; Leigh Ogston; Beavis, Katherine; Evans, Clay; Simpson, Jennifer
Subject: Meeting: RBT2 FRT Panel Orientation Session Prep
When: June 27, 2016 1:00 PM-2:00 PM (UTC-08:00) Pacific Time (US & Canada).
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Hi everyone, this is a chance for the federal government department's to touch base prior to presenting to the panel the next day. As Robyn noted the presentations are due in to the

panel "no later than **Monday June 27, 2016 at 12:00 pm PST**. Presentations should be in powerpoint format. All submissions are to be sent to the Review Panel at Panel.RBT2@ceaa.gc.ca."

Please cc me on your power point submissions to the panel and I will PDF them all into one document and circulate them back to all of you prior this meeting so we can have a chance to take a look through each department's submissions and have an opportunity to ask each other any questions of clarification on cross cutting issues. Thank you.

<< Message: RBT2 Orientation Session Update >>

- Remote presentation logistics (Robyn)
- Media

From:	Jardine, Kevin EAO:EX
To:	EAO Senior Management Team
Subject:	FW: Merit Commissioner Annual Report 2015 / 16
Date:	Wednesday, June 29, 2016 2:37:48 PM
Attachments:	2015-2016_Annual_Report-Merit_Commissioner-double_page_view.pdf image001.jpg

FYI...please share at your discretion.

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:24 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: Merit Commissioner Annual Report 2015 / 16

For your review/interest.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 🖷 250-387-6003 |

From: Haines, Kate EAO:EX
To: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: FW: Ministry of Health = Presentation Roberts Bank
Date: Monday, June 27, 2016 11:02:01 AM
Attachments: MOH Powerpoint Roberts Bank Panel June 28 2016.pptx

---

From: Lambert, Tim HLTH:EX
Sent: Monday, June 27, 2016 9:59 AM
To: Haines, Kate EAO:EX
Subject: FW: Ministry of Health = Presentation Roberts Bank

Hi Kate
I submitted the MOH presentation earlier. Didn't send to you sorry.

Tim

From: Lambert, Tim HLTH:EX
Sent: Monday, June 27, 2016 9:18 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Paton, Arlene HLTH:EX; Janke, Brenda G HLTH:EX; Carr, Michelle EAO:EX; Dutra, Corey G HLTH:EX; Benson, Stacey HLTH:EX
Subject: Ministry of Health = Presentation Roberts Bank

Hello Panel
Please find attached the Ministry of Health, BC, power point presentation. Note the Ministry of Health will not be present in person. MOH is available by phone on the afternoon of June 28 only.

Thank you
Timothy Lambert PhD
Executive Director
Health Protection
Ministry of Health

O: 250-952-1987
C: 250-217-8260

From: Batty, Adam EAO:EX
To: Haines, Kate EAO:EX; Perry, Monica EAO:EX
Subject: FW: Narrows Inlet Amendment #2 Review
Date: Wednesday, June 29, 2016 2:45:11 PM
Attachments: image001.png

FYI – DFO will not be a part of the review.

From: Klassen, Herbert [mailto:Herbert.Klassen@dfo-mpo.gc.ca]
Sent: Wednesday, June 29, 2016 2:42 PM
To: Batty, Adam EAO:EX
Cc: Yacyshen, Tom D FLNR:EX
Subject: RE: Narrows Inlet Amendment #2 Review

Thank you for your notice, Adam.

DFO has no official role in the amendment's environmental assessment but also advise that DFO's review procedures are described online and familiar to BluEarth, and if BluEarth deems any amendments pose risk of causing serious harm to fish that are part of or support a Commercial, Recreational or Aboriginal fishery, then BluEarth could request a DFO review of those changes. E.g. if changes to the Ramona project pose risk of serious harm to fish, including fish habitat, in the downstream reach, BluEarth would be advised to request a DFO review of the change.

Please be advised that BluEarth has requested a Fisheries Act authorization from DFO for Chickwat Creek operations and we are in the midst of that process.

Wishing you an informative assessment.

Herb Klassen, MSc, RPBio
Biologist, Ecosystems Management Branch
Fisheries and Oceans Canada/ Government of Canada
Herbert.Klassen@dfo-mpo.gc.ca /Tel: 604-202-0258

Biologiste, Direction des écosystèmes
Pêches et Océans Canada/Gouvernement du Canada
Herbert.Klassen@dfo-mpo.gc.ca /Tél: 604-202-0258

From: Batty, Adam EAO:EX [mailto:Adam.Batty@gov.bc.ca]
Sent: June-29-16 1:30 PM
To: Yacyshen, Tom D FLNR:EX; Babakaiff, Scott C FLNR:EX; Moorhouse, Tara TRAN:EX; Malt, Joshua FLNR:EX; 'jpaul@secheltnation.net'; 'Courtney Smith (csmith@secheltnation.net) (csmith@secheltnation.net)'; Klassen, Herbert; 'david.rafael@scrd.ca'
Cc: Haines, Kate EAO:EX; Perry, Monica EAO:EX
Subject: Narrows Inlet Amendment #2 Review

Hello,

EAO has received a second amendment request (Cover letter, Application) from BluEarth Renewables in relation to the Upper and Lower Ramona Creek components of the Narrows Inlet Hydro Project. The Certificate Holder is seeking a number of changes, including:

- Project design changes at Upper Ramona Creek
  a. lake tap intake;
  b. water conveyance system;
  c. flow storage capacity and drawdown;
  d. downstream flow release; and
  e. instream flow requirement (IFR) release system.
- Project design changes at Lower Ramona Creek
  a. Lower Ramona intake type;
  b. R1 (Marten Creek) intake location; and
  c. R1 (Marten Creek) maximum diversion rate.
- Revision to the Project boundary to encompass access roads to Chickwat Creek and entire transmission line corridor; and
- IFR schedule for Chickwat Creek facility.

As a previous participant in the review of the first Narrows Inlet Amendment, we wanted to confirm if you will be able to participate in this review. Please respond by **Tuesday July 5th** if you are able to participate and what level of participation you are able to contribute (i.e., participate in the review, or stay involved by Cc on communications). After I receive confirmation, we will begin the process of setting up a conference call to discuss any issues identified by the review team. If you are not the correct contact, please identify who EAO should be contacting at your organization with respect to this amendment.

Next Step: EAO will be asking the review team to conduct a review of the Holder's Amendment Package and provide feedback as part of the amendment process. We will provide more information about this next step soon.

Thank you,
Adam

Adam Batty
Project Assessment Officer
Tel: (250)387-2502

www.eao.gov.bc.ca

From: Perry, Monica EAO:EX
To: Haines, Kate EAO:EX
Subject: FW: Presentation being confirmed by ADM this morning
Date: Monday, June 27, 2016 8:55:00 AM
Attachments: image001.png

FYI (should we develop a response?)

From: Carsen, Dannie CSCD:EX
Sent: Monday, June 27, 2016 8:51 AM
To: Perry, Monica EAO:EX
Subject: Presentation being confirmed by ADM this morning

Hello Monica,
I appreciate your confirmation of our key messages. CSCD slides being reviewed this morning by ADM Faganello have exactly the messages you describe.

1. Legislative authority for CC and LGA etc. gives local governments autonomy and provides for little CSCD oversight
2. Responsibilities of CSCD include transportation (TransLink), land use planning, and general local government operations
3. Lower mainland municipalities encompass over 50% of BC's population, they have capacity, interest and influence and they are enabled by our legislative framework to express opinions on local effects, issues and concerns about the project

s.13

Regards,

Dannie Carsen | Senior Program Analyst
Governance and Structure Branch | Ministry of Community, Sport and Cultural Development
Direct: **250.387.2188** | Fax: 250.387.7972 | Toll free 604-660-2421 in Vancouver or 1-800-663-7867

Email: Dannie.Carsen@gov.bc.ca | Website: http://www.cd.gov.bc.ca/lgd/

From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 8:34 AM
To: Carsen, Dannie CSCD:EX
Cc: Haines, Kate EAO:EX
Subject: presentation

HI Dannie, I got your message. Yes the panel (independent federal panel) is the audience. This is

an orientation sessions so the panel what CSCDs mandate is, what regulatory/legislative authority and what "expertise" your ministry has in relation to the project. And yes, the key message wold be that local govt should be involved.

Monica Perry
Executive Project Director, Power and Community Infrastructure
Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208
cid:image001.png@01D10288.10288370

From: Haines, Kate EAO:EX
To: Grace, David H EAO:EX; Perry, Monica EAO:EX
Subject: FW: Presentation for Mark Zacharias at BC Ministry of Environment
Date: Monday, June 27, 2016 11:01:46 AM
Attachments: Roberts Bank Terminal 2 - MoE Mark Zacharias.pdf
image001.png

From: Zacharias, Mark ENV:EX
Sent: Monday, June 27, 2016 9:47 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Haines, Kate EAO:EX; Carr, Michelle EAO:EX; Laaksonen-Craig, Susanna ENV:EX; Lesiuk, Tim ENV:EX; Gooderham, Coleen E ENV:EX
Subject: Presentation for Mark Zacharias at BC Ministry of Environment

Good morning CEAA:

As requested, my presentation is attached for tomorrow's panel session.

Regards,

Mark Zacharias | Assistant Deputy Minister
Environmental Protection Division, Ministry of Environment
5th Floor, 2975 Jutland Road | Victoria, BC | V8W 9M1 | 250.356.0121 | 250.415.6466



From: Perry, Monica EAO:EX
To: Craven, Paul EAO:EX
Cc: Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject: FW: RBT2 Location and OneNote link
Date: Monday, June 27, 2016 6:43:00 PM
Attachments: image001.jpg

Paul,

Kate created a OneNote page, that you should be able to access as well. It has all the key documents. Not sure how to load things up on the page, so the PP with notes is note there.

The panel session is being held at the Downtown Vancouver Simon Fraser University – Segal Building, 500 Granville Street, Vancouver
Room 1200-1500.

Let me know if you need anything else.

From: Grace, David H EAO:EX
Sent: Monday, June 27, 2016 4:33 PM
To: Perry, Monica EAO:EX
Cc: Haines, Kate EAO:EX
Subject: FW: RBT2 one note

Hi Monica – see Kate's magic onenote!

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 3:14 PM
To: Grace, David H EAO:EX
Subject: RBT2 one note

RBT2

Give this a try

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Grace, David H EAO:EX
To: Perry, Monica EAO:EX
Cc: Haines, Kate EAO:EX
Subject: FW: RBT2 one note
Date: Monday, June 27, 2016 4:33:25 PM
Attachments: image001.jpg

Hi Monica – see Kate's magic onenote!

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 3:14 PM
To: Grace, David H EAO:EX
Subject: RBT2 one note

RBT2

Give this a try

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Haines, Kate EAO:EX
To: Craven, Paul EAO:EX
Cc: Perry, Monica EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation
Date: Monday, June 27, 2016 11:29:21 AM
Attachments: June 28 Draft PPT presentation.pptx
image001.jpg

Hi Paul,

Here is the final version of the PPT for tomorrow that was submitted to the panel. I made updates based on your comments and the final version of Kevin's letter that went to the panel on Friday, and Kevin reviewed and signed off this morning.

Monica is working on speaking notes and will share them when they are ready.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From:	Haines, Kate EAO:EX
To:	"panel.RBT2@ceaa.gc.ca"
Cc:	"Debra.Myles@ceaa-acee.gc.ca"; Ronzio,Joseph [CEAA] <Joseph.Ronzio@ceaa-acee.gc.ca>; (Joseph.Ronzio@ceaa-acee.gc.ca); Grace, David H EAO:EX; Perry, Monica EAO:EX
Subject:	FW: RBT2 Panel presentations - EAO presentation
Date:	Monday, June 27, 2016 1:04:47 PM
Attachments:	June 28 Draft PPT presentation.pptx image001.jpg

Resending and copying Joe and Debra as I got a bounce back from my submission to the panel email this morning

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

From: Grace, David H EAO:EX
To: Vinette, Nicole EAO:EX
Cc: Haines, Kate EAO:EX; Perry, Monica EAO:EX; Craven, Paul EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation
Date: Monday, June 27, 2016 4:13:46 PM

Hi Nicole,

As discussed, please find below the CEAA media contact that will be on site during the CEAA Orientation Session tomorrow.

Monica/Paul - Nicole suggested having one person on point if we get questions from the media.

DG

-----Original Message-----
From: Saely,Analise [CEAA] [mailto:Analise.Saely@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 4:03 PM
To: Grace, David H EAO:EX; Haines, Kate EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

Yes, so sorry. Here you go,

Lucille Jamault
Manager - Communications
Canadian Environmental Assessment Agency/ Government of Canada lucille.jamault@ceaa.gc.ca / Tel: 613-957-0434 / cell: 613-552-5253 /
ceaa.gc.ca

Analise Saely
604-666-9169

-----Original Message-----
From: Grace, David H EAO:EX [mailto:David.Grace@gov.bc.ca]
Sent: June 27, 2016 4:01 PM
To: Saely,Analise [CEAA]; Haines, Kate EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

Thanks Analise

Any chance you could please send your media contact details.

Much appreciated.

DG

-----Original Message-----
From: Saely,Analise [CEAA] [mailto:Analise.Saely@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 3:55 PM
To: Haines, Kate EAO:EX
Cc: Grace, David H EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

Yup, should be all good now!

Analise Saely
604-666-9169

-----Original Message-----
From: Haines, Kate EAO:EX [mailto:Kate.Haines@gov.bc.ca]
Sent: June 27, 2016 3:46 PM
To: Saely,Analise [CEAA]
Cc: Grace, David H EAO:EX
Subject: Re: RBT2 Panel presentations - EAO presentation

Assume this means you can load it on to the presentation computer? Just checking if we still need a thumb drive option.

Thanks!

On Jun 27, 2016, at 3:01 PM, Saely,Analise [CEAA] <Analise.Saely@ceaa-acee.gc.ca<mailto:Analise.Saely@ceaa-acee.gc.ca>> wrote:

Received and printing.

Analise Saely
604-666-9169

From: Haines, Kate EAO:EX [mailto:Kate.Haines@gov.bc.ca]
Sent: June 27, 2016 2:53 PM
To: Ronzio,Joseph [CEAA]; Saely,Analise [CEAA]; Myles,Debra [CEAA]
Cc: Grace, David H EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Please confirm receipt

From: Grace, David H EAO:EX
Sent: Monday, June 27, 2016 2:48 PM
To: Ronzio,Joseph [CEAA]; Myles,Debra [CEAA]
Cc: Haines, Kate EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Please confirm receipt.
Regards,

David

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 1:05 PM
To: 'panel.RBT2@ceaa.gc.ca<mailto:panel.RBT2@ceaa.gc.ca>'
Cc: 'Debra.Myles@ceaa-acee.gc.ca<mailto:Debra.Myles@ceaa-acee.gc.ca>'; Ronzio,Joseph [CEAA] <Joseph.Ronzio@ceaa-acee.gc.ca<mailto:Joseph.Ronzio@ceaa-acee.gc.ca>> (Joseph.Ronzio@ceaa-acee.gc.ca<mailto:Joseph.Ronzio@ceaa-acee.gc.ca>); Grace, David H EAO:EX; Perry, Monica EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Resending and copying Joe and Debra as I got a bounce back from my submission to the panel email this morning

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca<mailto:Panel.RBT2@ceaa.gc.ca>'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca<mailto:Kate.Haines@gov.bc.ca>

<image001.jpg>

From:	McDonald, Tavis EAO:EX
To:	"Carlie Smith"; Ruth Hardy; Tim Wilding
Cc:	Hardie, Karie EAO:EX; Murphy, Shelley EAO:EX; Perry, Monica EAO:EX
Subject:	FW: Redwillow dAIR comments
Date:	Tuesday, June 28, 2016 9:53:57 AM
Attachments:	image004.png image003.jpg 160524 dAIR Tracking Table - Working Group Comments_EAO Submission_June2....docx image001.jpg
Importance:	High

Morning

EAO received the attached comments from SFN this morning. I am forwarding for additional consideration and discussion before I review to determine if EAO is satisfied with the responses and finalise the AIR.

As previously noted I am going to be s.22 so won't be able to make a determination to finalise until later in July once we've had these follow up discussions. While I'm away, Karie will work with you to review the responses and potentially set up a call to discuss with SFN once I am back.

Thanks
T

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871
email_signature

From: McDonald, Tavis EAO:EX
Sent: Tuesday, June 28, 2016 9:45 AM
To: 'Donovan Cameron'; Hardie, Karie EAO:EX
Cc: Matt Hammond (mhammond@pggroup.com); Stephanie Louie (slouie@pggroup.com); forestry@westmo.org; mdiffin@mlib.ca
Subject: RE: Redwillow dAIR comments

Morning Donovan and thanks for getting these in.

I appreciate you taking the time to review as well as the additional comments you've provided. We'll forward to Red Willow for review and will likely set up a call to discuss. I'm going to be on s.22 though so may be mid to late July until we have an opportunity to further discuss.

s.22
T

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871
email_signature

From: Donovan Cameron [mailto:dcameron@saulteau.com]
Sent: Tuesday, June 28, 2016 8:01 AM
To: McDonald, Tavis EAO:EX; Hardie, Karie EAO:EX
Cc: Matt Hammond (mhammond@pggroup.com); Stephanie Louie (slouie@pggroup.com); forestry@westmo.org; mdiffin@mlib.ca
Subject: Redwillow dAIR comments

Morning, please find attached the tracking table of comments from SFN. Apologies for not getting this out Friday the 24th, I was ill over the weekend.

DONOVAN CAMERON
GIS Advisor

dcameron@saulteau.com
www.saulteau.com

T 250.788.7290 F 250.788.1276
Box 1020 Chetwynd BC V0C 1J0

Saulteau First Nation

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent *(Proponent response in italics)*	EAO Conclusion
1	July 10, 2015	Graham Suther / FLNRO	Biophysical	Table 1-1, pg 5	Under the *Wildlife Act* why was fish/amphibian salvage permits not included?	There are no plans to conduct fish sampling. It is the intention of the Proponent to address fish presence at this stage (i.e., no detailed design) in a less invasive fashion through database searches and by determining the probability for fish presence through habitat characteristics based on extensive sampling conducted in the Dawson Creek Timber Supply Area[1]. This will provide the information necessary to determine the width of riparian management areas as per *FRPA* 1995[2]. Should detailed design indicate environmental effects that cannot be addressed through standard mitigation, more detailed studies (such as fish sampling) may be conducted in the future to determine effects or to conduct salvages if needed for construction. Amphibian salvage permits could be sought in the future (prior to construction) should the construction footprint overlap with potential amphibian breeding habitat such that standard best management practices are not adequate.	(October 1, 2015, G. Suther) If a watercourse is not determined to be nonfish bearing via the appropriate survey methodology and timing3, the Province will assume the watercourse is fish bearing. If there is the possibility/need to salvage or collect fish and/or amphibians, suggest submitting the appropriate *Wildlife Act* permit application(s) in a timely manner to allow adequate time for consideration, including consultation. *Instream work is not anticipated, and will have more information on crossings at detailed design stage. However, salvage permits have been added to Table 1.1 Permitting and Regulatory Requirements in the dAIR and will apply when a need to salvage is identified.*	
2	July 10, 2015	Graham Suther / FLNRO	Biophysical	Section 3.2.2, pg 14	Are “temporal boundaries” referring to regionally defined aquatic/terrestrial timing windows?	Not solely. Also refers to anticipated timing for construction. Where they are referring to wildlife, they will consider the least-risk regional timing windows for the Peace Region[3].	(October 1, 2015, G. Suther) Suggest removing/replacing the word “consider” with “will”. Undertaking project activities within the relevant regionally defined aquatic/terrestrial least-work window should be the norm……but when it’s occasionally not feasible, appropriate QP’s develop mitigation to minimize/avoid impacts to relevant aquatic/terrestrial values *Thank you for the comment. We have replaced* “consider” with “will” *in our response: the temporal boundaries will be described in more detail for each VC in the VC assessment sections, including least risk windows. Appropriate mitigation will be developed to avoid or minimize potential effects.*	
3	July 10, 2015	Graham Suther / FLNRO	Biophysical	Section 3.3, pg 15	Is there one spatial delineation of the “Project study area” or different subject delineations applicable to each industrial activity included in Table 3-3?	Cumulative effects assessments will consider the potential for residual effects from the identified industries in Table 3-3, *Preliminary List of Past and Existing Projects and Activities in the Project Assessment Area*, to interact with the residual effects in in the assessment areas for each of the VCs i.e., the “VC-specific study area” refers to the LAA for a given VC.	*Further note: The cumulative effects area will take into account the differing spatial effects of different industries such that potential overlaps of effects are addressed.*	

1 V.A. Poulin & Associates. 2004. Field Stream Classification (Poulin) for the Dawson Creek Forest District – an experimental Procedure for Risk Managing Streams. Available: https://www.for.gov.bc.ca/hfd/library/FIA/2004/FIA-04-05-0032.pdf
2 FRPA. 1995. Riparian Management Area Guidebook. Available: https://www.for.gov.bc.ca/tasb/legsregs/fpc/fpcguide/riparian/rip-toc.htm
3 Ministry of Environment. 2009. Peace Region Least-risk Timing Windows: Biological Rationale. Available: http://www.env.gov.bc.ca/esd/distdata/Peace_Region_Wildlife_Values/Industrial_Sectors/Best_Management_Practices/MoE%20Timing%20Windows%20Rationale%20Final.pdf

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent *(Proponent response in italics)*	EAO Conclusion
4	July 10, 2015	Graham Suther / FLNRO	Biophysical	Section 3.5, pg 18	The following publicly available web link includes a variety of regionally specific spatial and a spatial environmental information (plus regionally specific guidelines and best management practice documents) http://www.env.gov.bc.ca/esd/distdata/Peace_Region_Wildlife_Values/	Thank you for this information.	(October 1, 2015, G. Suther) Within the AIR, there is a list of Standards and Guidance Documents for each environmental VC. Suggest relevant provincial/regional best management practice and guidance documents (web link provided in above noted document) and the Provincial Environmental Mitigation Policy and associated procedures[1] be included in such lists and/or at a minimum, utilized/referred to when developing the Application and subsequent environmental management plans.; [1]http://www.env.gov.bc.ca/emop/ *Documents have been included as relevant in each of the VC assessment sections (for example in Table 4-5).*	
5	July 10, 2015	Graham Suther / FLNRO	Biophysical	Section 4.2.6.2, pg 44	Potentially useful information available in the document *Inventory Method for Bears* available at https://www.for.gov.bc.ca/hts/risc/pubs/tebiodiv/bears/	Reference added to Table 4-7, *Regulatory Context, Standards and Guidelines for Existing Conditions – Grizzly Bear*, in the dAIR.		
6	July 10, 2015	Graham Suther / FLNRO	Biophysical	Section 4.2.7.2, pg 47	As fisher is included under the furbearer VC, the following document should be included *Inventory Methods for Medium-sized Territorial Carnivores: Coyote, Red Fox, Lynx, Bobcat, Wolverine, Fisher & Badger* available at https://www.for.gov.bc.ca/hts/risc/pubs/tebiodiv/medcarn/index.htm	Reference added to Table 4-8, *Regulatory Context, Standards and Guidelines for Existing Conditions – Furbearers*, in the dAIR		
7	July 10, 2015	Graham Suther / FLNRO	Biophysical	General	The proponent has previously been apprised (Feb/15) of the regional requirement to utilize "Qualified Professional" forms applicable to project specific environmental VC's. The attached email sent previously to the proponent provides relevant information/rationale of this requirement. As such, the AIR document should make reference to this subject requirement. **Note**: the subject requirement has been incorporated into the AIR documents applicable to the regional Sundance and Taylor Wind Energy Projects;	It is the Proponent's understanding that the EAO and FLNRO are still in discussions regarding if/how the Qualified Professional forms will be incorporated into the EA process. The Proponent has been directed by the EAO to not include reference to the QP forms in the dAIR at this time. On review of the forms, a majority of the requested information will be provided comprehensively in the Application. The Proponent will be happy to provide the forms with the information in the professional accountability section.		
8	July 20, 2015	Jodi MacLean / Peace River Regional District		General	No comments	Thank you for your review of the document.		
9	July 24, 2015	Amy Sopinka / Ministry of Energy and Mines	Agencies		The Ministry of Energy and Mines should be included in the list of provincial agencies participating in the review of the draft AIR.	The Ministry has been added to list of Provincial Agencies of the Preface to the dAIR.		

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent *(Proponent response in italics)*	EAO Conclusion
10	July 24, 2015	Amy Sopinka / Ministry of Energy and Mines	Project justification		Red Willow should justify the need for the project. The BC Hydro IRP and the Site C Business case suggest that IPP power from larger projects will not be required in the near term. Projects less than 15 MW in size may be eligible for the Standing Offer Program.	Wind projects contribute to BC's clean energy target of 93% renewable power, and contribute further diversity in the renewable energy supply for residents and industry. The BC Hydro Integrated Resource Plan Chapter 8 includes scenarios where procurement of new energy sources will be required.		
11	July 24, 2015	Amy Sopinka / Ministry of Energy and Mines	Concurrent permitting		Red Willow is encouraged to request concurrent permitting of Crown land tenure applications.	The Proponent intends to request concurrent permitting pursuant to the *Concurrent Approval Regulation* (BC Reg. 371/2002) under the *Environmental Assessment Act,* SBC 2002, c. 43, and has discussed this intention with Major Projects (FLNRO).		
12	July 24, 2015	Amy Sopinka / Ministry of Energy and Mines	ML/ARD		Red Willow has not but should identify and address the potential for acid rock drainage and metal leaching.	The potential for acid rock drainage and metal leaching will be considered in Section 4.1 Environmental Background of the Application, in the geology and natural hazards background information. If a potential is identified, a plan will be included in the Construction Environmental Protection Plans. The following text has been added to the dAIR in Section 13.0 Management Plans under *Construction Environmental Protection Plans*: "Metal Leaching / Acid Rock Drainage Management Plan (if needed)"		
13	July 24, 2015	Amy Sopinka / Ministry of Energy and Mines	Tenure		Potential conflicts with respect to overlapping tenures must be identified and addressed as early as is practicable, including any overlaps with permits administered by the OGC or MNGD.	The potential for interactions with overlapping tenures will be addressed in the Application in Section 6.4 Land and Resource Use. In addition, discussions with other tenure holders including those administered by the OGC or MNGD are included in the Public Consultation Plan and input from such tenure holders will be reported in the Public Consultation Reports and considered in the development of mitigation measures.		
14	July 24, 2015	Amy Sopinka / Ministry of Energy and Mines	Transmission		Red Willow should provide information on the transmission corridor with the proposed point of interconnection to the grid and is encouraged to discuss the proposed interconnection with BC Hydro as early as possible.	Noted, and discussions with BC Hydro will be ongoing.		
15	July 24, 2015	Amy Sopinka / Ministry of Energy and Mines	Transmission		In order to minimize land impacts, transmission lines should be located adjacent to existing transmission lines wherever possible.	The preliminary layout of the proposed Project has been developed to maximize the use of existing disturbed areas. Transmission and collector lines have been located adjacent to existing transmission corridors and other existing linear corridors (e.g., roads), wherever possible. For example, the Project proposes to utilize an existing substation (Quintette) and portions of the transmission line route are adjacent to Highway 52.		

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent *(Proponent response in italics)*	EAO Conclusion
16	July 28, 2015	Suzanne L'Heureux / Transport Canada	Aviation	4.2.3.3 (Avifauna) Potential Effects and Table 1-1 Permitting and Regulatory Requirements Anticipated for the Red Willow Wind Project	Can be addressed during the permitting phase – The proposed project is within close proximity to the Tumbler Ridge airport and may have significant impact on the airport. Our TC Civil Aviation team can provide expertise on aviation operations. Also, our team can also provide expertise with the required marking and lighting of the wind farm itself, as per the Aeronautical Obstruction Clearance Form.	Thank you for this information. The Proponent anticipates coordinating with your team during the permitting phase for the required permits.		
17	July 28, 2015	Suzanne L'Heureux / Transport Canada	Aviation	4.2.3.3 (Avifauna) Potential Effects and Table 1-1 Permitting and Regulatory Requirements Anticipated for the Red Willow Wind Project	There are no Airport Zoning Regulations for Tumbler Ridge, so provided the proponent submits an Aeronautical Assessment Form to advise of the height and location of the wind turbines, there should be no objection from TC-Civil Aviation.	The Proponent will submit documentation, including the Aeronautical Assessment Form, as required.		
18	July 28, 2015	Suzanne L'Heureux / Transport Canada	Aviation	4.2.3.3 (Avifauna) Potential Effects and Table 1-1 Permitting and Regulatory Requirements Anticipated for the Red Willow Wind Project	The wind turbines will constitute a hazard to low-level aviation navigation and as such must be marked on the appropriate aeronautical charts.	The Proponent will work with Transport Canada to ensure that information for the Project is provided in a timely manner to inform changes to aeronautical charts.		
19	July 28, 2015	Suzanne L'Heureux / Transport Canada		Working Group Comments on VC Selection	TC is satisfied with the proponent's responses to our comments (nos 33-36) on the VC Selection Document [Re: Comment Tracking Table (150706 Tracking Table - Working Group Comments VC Selection document].	Thank you for your review of the document.		

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent (*Proponent response in italics*)	EAO Conclusion
20	July 30, 2015	Sheena Briggs / FLNRO	Biophysical	Working Group Comments on VC Selection	Table 5-1, Page 15: Woodland Caribou Selection Rationale – Low Elevation Winter Range (LEWR) is not mentioned in this section and it is a very important project planning consideration given the conservation status of this species and the threats contributing to South Peace Northern Caribou population decline. The MFLNRO –Ecosystems Section, Northeast Region, suggests that LEWR be explicitly stated in this section of the VC selection document.	The Proponent recognizes the importance of woodland caribou and LEWR, and the VC Selection document noted the existing low elevation UWR as well as the *SARA* listing for the species. The Proponent is fully aware of the status and conversations pertaining to low elevation winter range, as noted in the Peace Northern Caribou Plan, the Federal Recovery Strategy for Woodland Caribou, and the September 2013 document describing core low-elevation winter habitat for the Narraway Caribou herd (since updated but not public). As recommended by K. Harvey (FLNRO) at the AWG meeting on July 16, 2015, in the absence of approved standard industry management practices (SIMP) for LEWR, the Proponent will follow guidance in the Environmental Mitigation Policy[4]. The Environmental Mitigation Policy has been added to Table 4-5, *Regulatory Context, Standards and Guidelines – Ungulates*, in the dAIR. The proponent is reviewing caribou use in the vicinity of the Project based on MoE data and is continuing to discuss potential caribou related concerns with FLNRO Ecosystems branch.		
21	July 30, 2015	Sheena Briggs / FLNRO	Biophysical	Table 3-1, p. 11	Should there be an 'x' indicating that Fish and Fish Habitat informs Water Use?	Table 3-1, *Preliminary Valued Component Linkages,* in the dAIR has been updated.		
22	July 30, 2015	Sheena Briggs / FLNRO	Biophysical	Table 4-1, p. 27	Suggest that the information regarding the 'Fish and Fish Habitat' be expanded, as the indicators for this VC has much less detail than the other wildlife VCs. Suggest expanding detail with comments such as: • presence of fish • in particular, presence or potential for at-risk fish species, as bull trout, pearl dace and northern redbelly dace are all known to occur in the project area • presence of spawning habitat • potential for fish migration through the project area • potential for disturbance to habitat (even if just vegetation removal, this could impact stream shading and fish cover)	The indicators have been revised for clarity. The following indicators were added to Table 4-1, *Preliminary Valued Components, Subcomponents, and Indicators* for the Environmental Pillar, in the dAIR. • Presence of spawning, migration, or overwintering habitat. • *FRPA* stream classification (e.g., S1, S2).		

[4] Ministry of Environment. 2014. Environmental Mitigation Policy – Working Document. Available: http://www.env.gov.bc.ca/emop/docs/EM_Policy_May13_2014.pdf

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23	August 7, 2015	Lheidli T'enneh	Infrastructure	VC Selection document	We note that the number of WTGs increased from 51-80 between project descriptions released in Jan and May (nameplate capacity remaining the same – 200 MW). Is there a related increase in the project's footprint associated with the increase in WTGs?	The number of WTGs was increased in the May Project Description to provide a better estimate of the anticipated maximum number of turbines for a 200 MW project. There is no change in the Project area in the documentation. The Project footprint (the area required by the final Project layout) may vary slightly, depending on the number of turbine pads. *Proponent correction to response*: *The number of wind turbines in the May 2015 Project descriptions was not increased: both the January and May documents provide for up to 80 turbines. The Proponent will assess maximum effects by assessing the maximum number of turbines.*		
24	August 7, 2015	Lheidli T'enneh	Infrastructure	VC Selection document	We also note that the transmission corridor route changed. What was the rationale for the change?	The Proponent initiated desktop and field studies on the Noel transmission line corridor in 2014 (the original route). Based on the results from these studies, it was determined that the Quintette route (current route) would have fewer potential environmental effects (for example fewer wetlands and listed bird species) and more favourable economics.		

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25	August 7, 2015	Lheidli T'enneh	Biophysical	VC Selection document	Lheidli T'enneh requests that there be further consideration and clarification of Mountain Goat presence within the project area, and/or more specifically to potential influences of project-related activities (heli flights, etc.). The census of the area's goat PMUs in 2013 suggest that there were consideration discrepancies between what was observed in 2013 and prior years, and what locally available expert-anecdotal knowledge suggests is present within the areas surveyed (Wapiti River PMU).	Please see Appendix B in VC Selection document. Mountain goat were considered a candidate VC but ruled out based on a very limited potential for Project-related effects. If specific data showing overlap between mountain goats and the Project area is available, the Proponent would appreciate this information. Goddard (2013)[5] did not report any goats near the LAA (single goat observed along Belcourt Creek in Wapiti River PMU approximately 10 km from LAA) but used anecdotal-expert information to estimate the Wapiti River PMU (100 goats) due to poor visibility. A 2003 survey (EBA Consultants as cited in Goddard 2013) reported 33 goats along Wapiti River, Belcourt, and Mistanusk Creeks (Wapiti River PMU). Goddard (2013) estimated 296 individuals in the adjacent Belcourt PMU and 271 individuals in the adjacent Wapiti-Monkman PMU. MoE pellet counts from 2005 – 2008 did not sample the LAA, and the nearest transects were approximately six kilometres to the south and southeast along Belcourt and Mistanusk Creeks, likely due to the very limited goat habitat and lack of historical observations. A 2004 MWLAP overview flight surveying ungulates did not detect any mountain goat in the Thunder / Red Willow area, and detected a single goat along Belcourt Creek. As noted in Appendix B of the VC Selection document, a small portion of the LAA overlaps with the Wapiti River Mountain Goat PMU. A game camera deployed in this area by Hemmera (in potential goat habitat) since late winter 2015 has not recorded any goat activity. No goat sign has been observed in this area during periodic bat detector downloads. No goat sign was observed during winter tracking work. No goats have been observed during the limited overview flights in this area or during limited flights to access bat detectors. No goat sign has been observed anywhere in the LAA during multiple years of survey effort. As such, we consider potential effects from the Project to be negligible and have not included as a VC.		

[5] Goodard, A.D. 2013. Mountain Goat Peace Inventory, South Peace, 2013. Available: http://nprg.ca/wp-content/uploads/2013/10/2013-South-Peace-Goat-Inventory-July-2013-FINAL.pdf

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26	August 7, 2015	Lheidli T'enneh	Land Use	VC Selection document	We note that Land and Resource Use is discussed as being "screened-in" as a VC (normally considered as part of the Social Pillar), but not specifically listed within the Appendix B.	Land use was noted in the discussions for the candidate VCs Traffic, Outdoor Recreation and Other Land Uses on Crown Land, in Appendix B of the VC Selection document. These candidates are considered in the proposed Land and Resource Use VC.		
27	August 7, 2015	Lheidli T'enneh	Access	VC Selection document	Access was "scoped out" as an independent VC (included within other VCs); Lheidli suggests that there may be value in considering Access (linear feature density of varying characteristics) directly as a VC, given its importance in relation to some of issues project's effects will trigger at a higher magnitude.	Access will be addressed within the subcomponents for the Land and Resource Use VC, as needed. Where linear feature density is of consideration for other VCs (for example, as an indicator for caribou), it will be calculated for the assessment of that VC. It is therefore not proposed as a VC.		
28	August 7, 2015	Lheidli T'enneh	Biophysical	VC Selection document	In relation to the Avifauna and bat VCs, the study design should incorporate the use of all available monitoring results from operating wind power projects in northeastern BC, including the accuracy of predictions regarding mitigation efficacy.	Available monitoring results from operational wind projects in northeastern BC will be considered in the Avifauna section of the Application, as well as in the management plans.		
29	August 7, 2015	Lheidli T'enneh	Biophysical	VC Selection document	A primary concern for Lheidli T'enneh in the area of the project is the status of the Narraway caribou herd, and related impacts on rights and interests.	The Proponent recognizes that caribou represent an important species for Aboriginal communities. As such, caribou have been identified as a subcomponent of the Ungulates VC, due to the endangered status of herds in this region, the importance to Aboriginal groups, and the potential for adverse Project-related effects. Discussions regarding caribou are ongoing between the Proponent, provincial managers, and First Nations groups.		
30	August 7, 2015	Lheidli T'enneh	TUS	VC Selection document	Lheidli T'enneh will require resourcing/capacity funding to undertake a Traditional Use Study and an assessment of our rights and interests in relation to the project, and its impacts and potential effects.	The Proponent is pursuing discussions regarding Traditional Use Studies with Aboriginal groups, including the Lheidli T'enneh.		

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31	August 7, 2015	PGL, on behalf of Saulteau First Nations, West Moberly First Nations, McLeod Lake Indian Band	Biophysical	Section 3.1, Issues Scoping and Selection of Valued Components	As discussed during the July 16, 2015 Advisory Working Group (AWG) meeting there is strong rationale to include amphibians as a VC. This will help to ensure potential impacts on amphibians are well-understood and assessed, as well as adequately addressed through a well-planned mitigation strategy. Of particular concern are the potential impacts of habitat loss, disruption of movement, risk of injury and/or mortality, and noise effects.	The Proponent continues to consider that the Construction Environmental Management Plan (CEMP) and Operational Environmental Management Plan (OEMP) will effectively address the potential effects identified in the comment. To ensure that potential effects to amphibians are addressed (e.g., disruption of movement, risk of injury and/or mortality), an Amphibian Management Plan (which would include monitoring of potential breeding habitat) will be included in the CEMP. This has been reflected in the list in Section 13.0 Management Plans of the dAIR. In addition, the final layout for the Project, which will include the proposed design mitigations for reducing the footprint and implementing potential buffer zones, will be available for completion of the CEMP and OEMP. The proposed management plan will be supported by: • The habitat disturbance indicator for the Terrestrial Ecosystems VC • Standard best management practices to minimize mortality risk A technical report on sound, to be appended to the Application, will present discussion on ambient sound and predicted operational sound and support qualitative assessments of sound effects. Section 4.1 Environmental Background of the dAIR has been edited to include reference to a sound technical report.	(June 24, 2016) The Proponent acknowledges that specific mitigation is required (in an Amphibian Management Plan), so this suggests that there are potential adverse effects that deserve attention in the EA. The Proponent is relying on a CEMP to include BMPs to salvage amphibians as required. This may mitigate certain effects but does not consider how the detailed design can avoid impacting key habitats. It would be standard practice in EA to identify these key habitats for amphibians (e.g., important breeding habitats) so that mitigation at detailed design (i.e., avoidance or other measures) can be planned. This level of consideration requires amphibians to be identified as a VC in the EA and for a baseline description to be provided. Otherwise, the mitigation is going to be blind to current sensitivities in timing and locations. Amphibians (or focal species) should be included as a VC in this EA.	

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32	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Sound	Section 3.1, Issues Scoping and Selection of Valued Components	Sound was not selected as a VC based on the project's distance from residences and residentially zoned parcels (i.e., greater than 30km from the turbine corridors). However, potential impacts of noise, generated from the project during construction, operation and decommissioning, on wildlife and the practice of traditional land uses is also a concern. Please ensure that assessments of potential impacts of noise on wildlife and traditional uses are included in the Application, including baseline data. Boralex indicated that they could provide a sound map showing total energy generated from the turbines and distribution based on distance and topography, which would be helpful to understand where potential impacts from operation could occur.	A technical report on sound, to be appended to the Application, will present discussion on ambient sound and predicted operational sound and support qualitative assessments of sound effects. Section 4.1 Environmental Background of the dAIR has been edited to include reference to a sound technical report.	(June 24, 2016) SFN requests baseline information used in preparing the sound assessments. SFN would like to conduct a quick sound distribution model (just an early desktop review) but need some source information such as: • Location/sources of sound and amount expected in dB and most importantly **sound frequency in Hz** (model runs within a specific range, so if it's outside of this range the model won't be considered for this) • weather related information including temperature and relative humidity (this might have been collected when Boralex had meteorological towers in place or even earlier with portable SODAR machines) • Wind direction, speed and frequency • http://warnercnr.colostate.edu/~sereed/publications/ReedBoggsMann2010.pdf	

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33	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Assessment boundaries	Section 3.2, Assessment Boundaries	Fish and Fish Habitat Regional Assessment Area (RAA) – The RAA should be determined based on what is appropriate and relevant to assess impacts to fish at the regional population level. SFN, MLIB and WMFN are concerned about cumulative impacts to fish populations, so it will be important to understand how the project in combination with other projects and activities in the area will impact regional fish populations. As such, the RAA should encompass the areas of other activities that are also affecting these same fish populations. Selecting the RAA based on the presumption that project impacts will be minimal is not an appropriate justification. We realize there may be challenges with using the watershed boundary for the area, however the boundary needs to provide regional context with respect to fish populations. We note that the Wapiti River Watershed and/or the Murray River Watershed is being used for the RAA for the Water Use VC, could these also be used as the Fish and Fish Habitat RAA?	As noted, a buffer for the RAA boundary was chosen because potential interactions between the Project activities and regional fish populations are not anticipated, and the watershed boundaries are complex. However, in response to your comment, the Fish and Fish Habitat VC RAA has been revised to include a larger area based on watershed boundaries to address the concerns outlined in this comment. Table 3-2, *Preliminary VCs and Spatial Boundaries for the Effects Assessment*, and Figure 3 in Appendix A have been revised to reflect this change. The indicators selected for the Fish and Fish Habitat VC include the potential for fish presence and as such the potential effects to fish populations will be addressed (see response to Comment # 22 for more information on indicators). The cumulative effects assessment areas will consider the potential for Project –related residual effects to interact with the residual effects of the other projects noted in Table 3-6, *Preliminary Project and Activity Inclusion List*. This list includes projects within the RAAs for all the VCs, some of which are larger than the original Fish and Fish Habitat RAA. Should a residual effect with the potential to interact with Project-related effects be identified, the cumulative effects will be considered. A rationale for the selection of the assessment area for cumulative effects will be provided in the Application (see Section 3.10 of the dAIR). The VC RAA boundaries do not necessarily reflect the boundary that will be used for the cumulative effects assessment, which is where the concerns noted will largely be addressed. A larger boundary (such as that identified for the Water Use VC) will be applied for the cumulative effects assessment, if appropriate.		
34	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Existing conditions	Section 3.3, Existing Conditions	The Coastal Gaslink Project (pipeline) falls within the RAA of some VCs and should be included on the preliminary list of past and existing projects and activities in the Project Assessment Area.	The Coastal Gaslink Project was added to Table 3-6, *Preliminary Project and Activity Inclusion List.* It was not included in Table 3-3, *Preliminary List of Past and Existing Projects and Activities in the Project Assessment Area*, as this table reflects past and existing projects, and the Coastal Gaslink Project is not yet under construction.		

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35	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Indicators	Section 4.0, Environmental Effects Assessment	Please provide rationales to support the selection of indicators for each VC. It is important for reviewers to understand what is trying to be achieved through the evaluation of each indicator. This way we can assess whether the Proponent was successful during Application review. Too often we see indicators that are not useful or appropriate in facilitating the analysis of interactions between the project and the selected VC. It is important that indicators generate useful data that inform our understanding of the potential effect on the VC.	The Proponent recognizes the value of the indicators to provide a useful approach to understanding the potential Project effects. The indicators were selected during the VC selection process to reflect the potential effects of interactions between the project activities and the VCs, as noted in Table 5-3, *Preliminary VCs, indicators and Supporting Studies* in the VC Selection document and the interactions Table 3-4, *Preliminary Project-Valued Component Interactions Matrix* in the AIR. As such, additional rationale for their selection is not provided in the dAIR, however can be provided in the Application. The following text has been added to Section 3.1 of the dAIR: "The Application will also present a rationale for the selection of the indicators for the VCs, in the VC sections."		
36	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	Please include water quality parameters and stream flow as indicators for Fish and Fish Habitat. We strongly recommend that water quality and stream flow baseline information be collected to gain an understanding of baseline conditions for watercourses potentially impacted by the project. Water is regarded by First Nation community members as the "source of all life" and protection and monitoring of all watercourses and water bodies is a primary concern. From a cumulative perspective it will be important to understand if watercourses in the project area already stressed from existing development/activities (e.g., have high sediment load or potentially high sediment load from upstream impacts).	The Proponent recognizes and appreciates the importance of water resources in the Peace region to First Nations and non-Aboriginal communities. The field assessment methods that have been proposed for the Project are intended to gather the field data necessary to assess the probability of fish presence and define riparian buffers for watercourses within the LAA. Avoiding interaction with watercourses by establishing appropriate riparian buffer distances will avoid potential effects to water quality or stream flow. This is a standard component of working near watercourses. Potential effects to water quality and stream flow will be managed through the Environmental Management Plans (Surface Erosion Prevention and Sediment Control Plan), and the Proponent is committed to conducting more detailed studies at water crossings where upgrades are required (as identified during detailed design) in order to inform mitigation and monitoring efforts. The existing conditions sections in the Application will include the effects of existing development, and as such will reflect existing stresses. Development that is considered to be included in the existing conditions sections is listed in Table 3-3, *Preliminary List of Past and Existing Projects and Activities in the Project Assessment Area* of the dAIR.	(June 24, 2016) This response does not address the request to include water quality parameters and stream flow as indicators for Fish and Fish Habitat. Adhering to appropriate riparian buffer distances to avoid potential effects to water quality or stream flow is ideal, however past development indicates that avoidance is not always achievable. Data establishing baseline water quality and flow characteristics of watercourses is strongly recommended. Also, please note that with recent flooding events (two major floods in the past 5 years, more frequent than average) the streams are filling with sediment, and taking years to clear. This may impact the ability of the proponent to conduct a viable fish population survey and water quality assessment. In cases where watersheds have increased logging activity, sediment is believed to be increased for certain waterbodies and streams – something that must be factored into any proposed cumulative effects assessment.	

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37	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	If there is old growth forest in the Environmental Pillar LAA, please include extent (ha) and potential disturbance of old growth forest as an indicator for terrestrial ecosystems.	Old growth forest will be identified in Section 4.3 Terrestrial Ecosystems of the Application with the *plant communities at risk* indicator. Old growth forests designated as OGMAs will be noted in Section 6.4 Land and Resource Use.	(June 24, 2016) The proponent will be expected to manage OGMAs as per provincial regulations within their license area. Please ensure that Section 4.3 includes an evaluation of potential impacts to OGMAs as well.	
38	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	We note that the proponent has included presence and abundance of culturally valued plants as an indicator for terrestrial ecosystems - Berries and medicinal plants in particular were identified as culturally important plants for First Nation community members.	Thank you for this information. *Proponent expanded response:* *Field studies undertaken for the Red Willow assessment will use the list of culturally valued plants provided by First Nations during the Moose Lake and Babcock review as a starter point. To the best ability, the Proponent will include noted culturally valued plants, given the distribution characteristics of the plants across ecosystems.*	(June 24, 2016) SFN has learned by conducting several Traditional Knowledge and Land Use interviews, and other field related work that it is extremely difficult to gather a comprehensive list of culturally important plants, especially those with medicinal properties. Knowledge about plants with medicinal purposes is retained at the individual level (not a collective knowledge base) and is often considered highly confidential and very specialized. This is knowledge that is acquired from a lifetime of experience on the land and passed down knowledge from generation to generation within family/clan groups at SFN. SFN may be able to provide more information, on request, to expand on the current list from the Moose Lake and Babcock as there is an elders group that meets periodically at SFN to discuss culturally important plants. It's also extremely important to note that plants with medicinal properties and applications are collected in "pristine" often undisturbed areas via spiritual and religious ceremonies. When areas that contain these medicinal plants are disturbed with unnatural development that SFN members will no longer harvest these plants because the lose their potency, effectiveness and individuals cannot conduct the religious and spiritual ceremonies required to harvest and prepare the plant appropriately based on cultural protocols (ie, areas with minimal to no disturbance either at the site, or on their way to it). As a result, most knowledge holders in the community are reporting having to harvest these plants in very remote, hard to reach regions increasing expenditure and effort dramatically – this creates a barrier to on-going and future use when existing areas are impacted.	

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39	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	Please include extent of habitat loss (ha) as an indicator for avifauna. We understand the primary risk to birds is during operation, however loss of suitable habitat will also be a consequence of the project and should therefore be quantified. The type of habitat lost (e.g., mixed forest, old growth etc.) and how this may impact particular bird groups or bird species-at-risk should also be assessed.	A measurement of bird diversity will be provided by calculating a diversity index for broad habitat types present in the LAA (e.g., young and mature coniferous, deciduous, mixed, shrub), with a focus on bird species at risk. Habitat suitability mapping for birds will not be included in the Application. The following text in italics has been added to the indicators in the dAIR Table 4-1, *Preliminary Valued Components, Subcomponents, and Indicators for the Environmental Pillar:* • Presence and relative abundance *and diversity* of bird species.	(June 24, 2016) This response does not address the request to include the extent of habitat loss for certain focal bird species/groups.	
40	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	Grouse/ “chickens” were identified as a species of concern by MLIB community members. Refer to specific comments by band members in Table 1.0 below.	Noted. Observations of grouse (including location information) were recorded during the breeding bird survey program and incidentally during all other field work. This information will inform the assessment of potential effects to birds.		
41	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	Based on the proposed indicators for ungulates (i.e., extent and quality of winter habitat), the proposed habitat assessment for moose and elk will focus on impacts to winter habitat. We understand that the availability of winter habitat is the limiting factor for these species, however First Nation community members are concerned about potential impacts to all seasonal habitats. Understanding potential impacts to wildlife habitat used year-round provides a holistic view of effects to ungulate populations, but also can be used to determine potential impacts on Aboriginal hunting. Please expand the habitat indicator for all ungulate sub-components, to include an assessment of impacts to spring, summer and fall habitat.	Winter habitat for moose has been the focus of the habitat suitability analysis since it is the limiting factor affecting moose survival. Feeding habitat during other times of year are not considered to limit moose in the Region; however, key habitat features used at different times of the year including licks, wallows, game trails, heavily browsed areas etc., have been recorded during field surveys within the LAA, as have ungulate and any other animal sign. This information will be used to identify and assess potential effects to important year-round habitat, and guide mitigation (including avoidance) if applicable. Section 4.5.2 of the Application will consider the existing conditions for moose and elk and their year round use of the Project area. Additionally, the Proponent is working with the First Nations regarding Traditional Use of the Project area for Aboriginal hunting, and will address potential effects to Traditional Use in Section 11.1 of the Application.		
42	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	Creating new access to recreational users, non-aboriginal hunters and predatory wildlife (with respect to key ungulate species) is a major concern for First Nations. How will the Proponent evaluate changes in access and subsequent impacts to other VCs including wildlife and traditional use?	Changes in access for ungulates will be addressed by the linear corridor density indicator.	(June 24, 2016) Please also include a Forest Fragmentation Index in the linear corridor density indicator. Please see http://www.ecologyandsociety.org/vol4/iss2/art3/ for an example. The paper referenced can be used locally, as opposed to just regionally/nationally as demonstrated in the document. There are publicly available tools already developed to do this, for example: https://grass.osgeo.org/grass70/manuals/addons/r.forestfrag.html	

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43	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	Indicators for ungulates should include presence of key habitat features including mineral licks, wallows, rutting grounds and wildlife trails. These features need to be identified prior to construction if present so that potential impacts can be avoided or mitigated.	Such features have been noted during field studies, and will be documented in the Application. An indicator has been added to Table 4-1, *Preliminary Valued Components, Subcomponents, and Indicators* for the Environmental Pillar in the dAIR as follows: • "presence of key habitat features" Potential effects to these features will be addressed during the assessment, and the Proponent anticipates that mitigation measures (not completed at this stage of the process) may require pre-construction surveys for the final layout prior to construction.	(June 24, 2016) Can the proponent provide assurances, like in Tracking #41 that the pending results of the Traditional Knowledge and Land Use Study will be incorporated as well? There is an emphasis on recording these ecological features during the interview process at a scale of 1:50,000 or better and would be more than valuable for the proposed pre-site assessment that may change construction layouts and plans.	
44	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	Indicators for grizzly bears should include presence of dens and amount of suitable denning habitat so potential impacts to dens can be avoided or mitigated.	As noted in Table 4-1, *Preliminary Valued Components, Subcomponents, and Indicators* for the Environmental Pillar in the dAIR, habitat suitability assessments will be informed by habitat, sightings, tracks, scat, and other sign collected during field studies that cover the project infrastructure and representative habitats within the LAA. Dens were not explicitly noted in the text, though such features have been recorded (two potential den locations) when encountered. As recommended in FLNRO's Compendium of Wildlife Guidelines[6], more than one winter den site used within the past two years within two hectares indicates an important winter site. These den site areas will be investigated further once a detailed design has been established to identify whether these areas represent important winter denning habitat and whether mitigation is required. Dens have now been added to the text in the dAIR Table 4-1, *Preliminary Valued Components, Subcomponents, and Indicators for the Environmental Pillar*. The Proponent considers that the potential for effects to grizzly bear dens is more effectively addressed during timely pre-construction surveys closer to the initiation of construction (when detailed design is available) rather than through a large-scale habitat assessment as habitat characteristics that predict grizzly bear denning habitat are poorly understood in the Peace Region (i.e., dens are often on north-facing slopes but have been recorded on all aspects[5]).		

[6] MFLNRO. 2014. A Compendium of Wildlife Guidelines for Industrial Development Projects in the North Area, British Columbia: Interim Guidance. Available: http://a100.gov.bc.ca/pub/eirs/finishDownloadDocument.do;jsessionid=r622V6DWkTwyC62vhf7VgpgxKy8CyZVKjcxhSTqcnkJMknpnvLyG!-91937584?subdocumentId=9921

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45	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Biophysical	Section 4.0, Environmental Effects Assessment	Indicators for wolverine should include extent of suitable habitat (ha), including denning habitat. Presence of wolverine (through identification of tracks/sign) alone will not provide a very good understanding of the potential impact of the Project on wolverine.	As noted in the response to comments on the VC Selection document, it is unlikely that a meaningful prediction of habitat loss/alteration is possible for wolverine, and thus habitat has not been included as an indicator. The assessment will assume that wolverine are present in the LAA and RAA, and propose mitigation measures based on this assumption. Wolverine habitat preference and use is not well documented in the Peace Region. Wolverine often associate with higher elevation habitats including alpine and subalpine forests often with persistent snowpack into spring[7]; however, current research in the boreal forest of north-western Alberta and north-eastern BC[8,9] indicates that wolverines utilize a different strategy in lowland boreal forests dominated by muskeg. Based on this, and the fact that the landscape in the Project region transitions from alpine to low-elevation habitat, wolverine are presumed present in the LAA, at least periodically as they move about their large home ranges. Snow tracking surveys have been conducted and no tracks were detected. No obvious denning features have been detected either, though identifying such features is not feasible without telemetry studies.	(June 24, 2016) SFN believes, contrary to the proponent, that wolverine habitat can be modelled if a qualitative study were to take place with First Nations members and experts on Wolverine ecology and habitat. It would be ideal to do this collectively with other First Nations to make it as comprehensive and feasible as possible.	
46	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Economic Pillar	Section 5.0, Economic Effects Assessment	Please note that MLIB community members had many questions and concerns with respect to economics. Refer to the Table 1.0 below for specific comments. It will be important to MLIB for the Proponent to identify job, training and educational opportunities for band members.	The Proponent will work with the First Nations communities through the consultation and engagement program to identify job, training, and educational opportunities for band members.		
47	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Visual	Section 6.0, Social Effects Assessment	Thunder Mountain was identified by Saulteau First Nations as an area potentially impacted by the Project though degradation of visual quality. Please ensure that the assessment includes visual renderings as a tool to compare the landscape from key areas of use, prior to and after development.	Thank you for identifying Thunder Mountain as an area of concern for visual quality. The Proponent will include this area in the visual analysis in Section 6.5 Visual Resources of the Application.	(June 24, 2016) "Duke Mountain" nearby is also a very significant area to the Kelly Lake community, but its location may be labelled incorrectly on the current maps. The Traditional Knowledge and Use Study would verify its location if that is the case.	

7 Aubry, K.B., McKelvey., K.S., and J.P. Copeland. 2007. Distribution and broadscale habitat relations of the wolverine in the contiguous United States. Journal of Wildlife Management 71: 2147-2158.
8 Wright, J.D., and J. Ernst. 2004. Effects of mid-winter snow depth on stand selection by wolverines, *Gulo gulo luscus*, in the boreal forest. The Canadian Field Naturalist 188: 56-60.
9 M. Scafford, *pers. Comm.*

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent (*Proponent response in italics*)	EAO Conclusion
48	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Management Plans	Section 13.0, Management Plans	First Nations have expressed the importance for the Proponent to begin working with First Nations on developing mitigation and management plans as early in the process as possible. Industry standard mitigation has not been effective given the unprecedented number of existing and proposed projects and activities in Treaty 8 Territory.	Through the engagement outlined in the Aboriginal Consultation Plan, the Proponent will be working with the Aboriginal groups during the pre-Application phase to develop the mitigation measures in the Application that will inform the management plans. In addition, the Proponent is committed to discussing the management plans during and following the Application Review Phase.		
49	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Management Plans	Section 13.0, Management Plans	The Wildlife Management Plan should also cover the operational phase of the Project.	A Wildlife Management Plan has been added to the list of operational plans in Section 13.0 Management Plans of the dAIR.		
50	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Management Plans	Section 13.0, Management Plans	Plans to specifically manage, mitigate and monitor short and long-term impacts to birds, caribou and moose should be developed for the project.	The proposed management plans in Section 13.0 Management Plans of the dAIR will include such measures, informed by the assessment sections for the VCs.		
51	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Management Plans	Section 13.0, Management Plans	The Access Management Plan should cover the construction phase, as well as the operation phase of the project.	Access during construction will be managed by the Access and Traffic Management Plan, listed under Construction Environmental Protection Plans (Section 13.0 Management Plans of the dAIR). An Access Management Plan has been added to the list of operational plans in Section 13.0 Management Plans of the dAIR.		
52	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Management Plans	Section 13.0, Management Plans	A Communication Plan should be developed for the Project through consultation with First Nations.	Boralex anticipates that a Communication Plan for First Nations will be developed, in consultation with First Nations, and will be included in a Stewardship Plan. The Stewardship Plan will include communications protocols for First Nations and stakeholders. The Stewardship Plans in Section 13.0 Management Plans of the dAIR have been renamed 'Aboriginal and Stakeholder Stewardship Plans'.		
53	August 7, 2015	PGL, on behalf of Saulteau FNs, West Moberly FNs, MLIB	Management Plans	Section 13.0, Management Plans	Invasive Plant Management should be a component of the Vegetation Management Plan. Herbicide use is a concern for First Nation community members, therefore it will be important for the Proponent to develop an effective early detection and rapid response strategy to prevent and/or control invasive plant establishment and spread.	Invasive species are included as an indicator for the Terrestrial Ecosystems VC, and mitigation measures developed to minimize potential effects for this VC will be included in the Vegetation Management Plan (noted in Section 13.0 Management Plans of the dAIR). The dAIR has been edited to note that invasive species management will be included in this section.		

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent *(Proponent response in italics)*	EAO Conclusion
54	July 16, 2015	Luc Roberge / FLNRO	Visual Resources	Sect 3.1/Table 3-1/p.11	The Land and Resource Use VC with its sub-components Outdoor Recreation and Other Land Uses on Crown Land can certainly interact with the Visual Resources VC. Concerns cannot be addressed in the permitting phase. Add a link between Land and Resource Use and Visual Resources VCs in Table 3-1.	A link between Visual Resources and Land and Resource Use has been added to Table 3.1 Concerns will be addressed through the analyses and assessments in the Application	(June 24, 2016) The results of a qualitative study on medicinal plant identification would capture vital information relating to that specific land use and the visual quality expectations of SFN members who harvest those resources.	
55	July 16, 2015	Luc Roberge / FLNRO	Visual Resources	Sect 3.3/p.14	Some information on Existing Conditions, specifically Existing Visual Conditions can be found on the BC Geographic Warehouse as part of the Visual Landscape Inventory data. Although somewhat outdated and incomplete in covering the entire land base, this information should be consulted and supplemented with field observations and photography. Concerns cannot be addressed in the permitting phase. Add a reference to the BC Geographic Warehouse to the section as a source of data to consult for describing Existing Conditions.	Thank you for the information on data sources and supplementary field information for the existing conditions section for the Visual Resources VC. Section 6.5 of the Application lists the regulatory regime for this VC, and data sources will be provided in the Application as follows: P. 63: This section will describe the approach taken to characterising the existing conditions of the VC, and describe the study methods, including any desktop studies, interviews, or modelling undertaken, with reference to any applicable standards or methods. Information sources, including input from regulatory agencies, Aboriginal communities, public and stakeholders, and technical experts will be identified. Concerns will be addressed through the analyses and assessments in the Application. The Application will present an assessment of the potential visual quality effects of the preliminary design for the Project, and concerns will be addressed in the Application through the development of proposed mitigation measures.	(June 24, 2016) When the Traditional Knowledge and Use Study is complete, resources that have been identified and mapped during those interviews could be used by SFN to develop a relevant Visual Quality Inventory that goes beyond public roads and recreational viewpoints especially regarding the harvesting of medicinal plants. SFN has found that current visual quality objectives are to meet the needs of non-first nations or recreational users like major public roads and other recreational sites. SFN members utilize the land differently and have the same expectations in their past, current and future use areas.	
56	July 16, 2015	Luc Roberge / FLNRO	Visual Resources	Sect. 3.4.1/Table3-4/p.17	As stated in Sect. 6.2.4.3/p. 62, activities related to the Decommissioning Phase may have potential effects on the Visual Resources VC but this was not shown in the table. Concerns cannot be addressed in the permitting phase. Add a link between Decommissioning Phase and the Visual Resources VC in Table 3-4.	The table has been edited to add an interaction with visual resources for the decommissioning phase. However we note that this interaction is likely positive, and as the assessment focuses only on adverse effects, an assessment will not likely be required. Concerns will be addressed through the analyses and assessments in the Application. The Application will present an assessment of the potential visual quality effects of the preliminary design for the Project, and concerns will be addressed in the Application through the development of proposed mitigation measures.	(June 24, 2016) SFN has heard concerns of the “pads” that the Turbines and other related infrastructure sit on as they are special concrete structures and would like those areas reclaimed to the best extent possible to reduce their physical presence and visual impact.	

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent *(Proponent response in italics)*	EAO Conclusion
57	July 16, 2015	Luc Roberge / FLNRO	Visual Resources	Sect. 6.2.4.2/p.61	Some information on Existing Conditions, specifically Existing Visual Conditions can be found on the BC Geographic Warehouse as part of the Visual Landscape Inventory data. Although somewhat outdated and incomplete in covering the entire land base, this information should be consulted and supplemented with field observations and photography. Concerns cannot be addressed in the permitting phase. Add a reference to the BC Geographic Warehouse to the section as a source of data to consult for describing Existing Conditions.	Please see response to line 55.		
58	September 28, 2015	Suzanne L'Heureux / Transport Canada	Marking and Lighting		TC-Civil Aviation may need to issue an Obstruction Clearance Permit in relation to the proposed wind turbines associated with the Project [more general: in relation to some projects]. As more detailed specifications for the project infrastructure are developed, they should be assessed for any marking/lighting requirements per Canadian Aviation Regulations (CAR) 601 - Division III - Marking and Lighting of Obstacles to Air Navigation and Standard 621 - Obstruction Marking and Lighting. The regulation can be accessed online at: http://www.tc.gc.ca/eng/acts-regulations/regulations-sor96-433.htm . The standard can be accessed online at: http://www.tc.gc.ca/eng/civilaviation/regserv/cars/part6-standard-standard621-3868.htm An Aeronautical Assessment Form for Obstruction Marking and Lighting can be downloaded (http://wwwapps.tc.gc.ca/wwwdocs/Forms/26-0427E_1405-04_E.pdf) and submitted via email (pacAOCF@tc.gc.ca<mailto:pacAOCF@tc.gc.ca>) or fax (1–855-618–6288). Nav Canada would have to get info such as the location and height the wind turbines to update their aeronautical charts. The proponent would have to submit an Application for Land Use to Nav Canada (Landuse@NavCanada.ca<mailto:Landuse@NavCanada.ca>). The number to contact the NavCanada-Land Use group is 1-866-577-0247. The Application form is available online (http://www.navcanada.ca/EN/products-and-services/Pages/land-use-program.aspx).	Thank you for the permitting information. The Proponent will ensure that the noted permits are obtained as advised. The Application for Land Use Permit has been added to Table 1-1 Permitting and Regulatory Requirements.		

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent *(Proponent response in italics)*	EAO Conclusion
59	September 28, 2015	Suzanne L'Heureux / Transport Canada	Navigable Waters		During the AWG meeting, the proponent informed that the Project Description had been revised as of August 2015; there would be more new access roads, and possibly a new communication tower. For the new access roads, the proponent indicated that there would be no waterway crossings. If for some reason that is not entirely the case, one of our previous comments would apply and reads as follows: "TC-Navigation Protection Program (NPP) may need to issue approvals under the Navigation Protection Act (NPA) for transmission line crossings on any scheduled waters, under the NPA. A self-assessment of the project against the Minor Works Order and Minor Repairs Order (document attached to email) should be conducted by the proponent to determine if a Notice to the Minister is required for this and any other any works on scheduled navigable waters. For those works on scheduled waters that do not meet the Minor Works Order and Minor Repairs Order, the following will be required: • Notice of Works Form (attached); • Drawings of the works; • Methodology of construction (including contingency plans); • Description of historic, baseline and potential navigation use including First Nations use; • Description of the level of impact; and, • Suggestion of appropriate mitigation for the impacts." For the possibly new communication tower, the above comments associated with the wind turbines would apply.	There are no crossings of scheduled waters under the NPA. A new communication tower, if required, will be included in the applications noted in comment 58.		
60	October 1, 2015	Graham Suther / FLNRO	Biophysical		The Application should include information regarding mitigation strategies in the event wildlife habitat features (e.g. bear den, mineral lick) are located in the proposed construction footprint. If existing results of project associated environmental fieldwork has identified such features, such information should also be included in the Application.	Information on wildlife habitat features will be included in the biophysical existing conditions sections. For example, wildlife features are an indicator for the Ungulates VC. Mitigation measures for potentially affected wildlife features will be included in the assessment sections for the VCs.		

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent *(Proponent response in italics)*	EAO Conclusion
Comments on the draft minutes for the September 15, 2015 Advisory Working Group Meeting								
61	October 7 2015	Donovan Cameron, SFN	Cultural resources		What statutes or regulations does each ministry have in regards to protecting/preserving First Nations cultural resources (ie, not related to the cultural resources and heritage act which is fairly restrictive or just not appropriate for first nations cultural resource/heritage protection).	EAO to respond to comment.		
62	October 7 2015	Clayton Davis MLIB	Culturally valued plants		List of culturally valued plants addendum	A preliminary list of culturally valued plants was sent by Hemmera to Aboriginal groups, as requested during September 15 AWG, and plants included in the response (Clayton Davis, pers comm) will be included in the list of culturally valued plants considered in the Application. The Proponent will assess noted culturally valued plants, as possible, based on the field work and the distribution characteristics of the plants across ecosystems.		
63	October 7 2015	Donovan Cameron, SFN	Valued Components		Valued components should consider ecological aspects of the culturally valued plants as well as cultural values	The Proponent will assess the ecological aspects of the noted culturally valued plants, based on the field work and the distribution characteristics of the plants across ecosystems.	(June 24, 2016) SFN would like the proponent to consider a proposal that would allow SFN to conduct a qualitative study with key SFN members who are experts in the collection of these plants to identify the ecological components required for the propagation (natural dispersal) of those resources and enhance the modelling. It's important to note that these qualitative studies are smaller in scale and open to scope-change compared to the Traditional Knowledge and Use Studies which are a type of structured survey and don't allow for experts to share their knowledge in that forum.	
64	October 7, 2015	Clayton Davies, MLIB	Valued Components		The valued components identified by the MLIB members are integral to exercising our Treaty Rights which are Constitutionality Protected. The proponent must consider all VEC's proposed by the MLIB members	The VCs and their subcomponents were selected during the VC Selection process, as summarized in the VC Selection document, and circulated to the AWG for comment. Comments through this review process, which included a FNITR review, as well as concerns noted during consultation, were considered in the selection, and the Proponent considers that the values presented by the MLIB have been well integrated into the VC selection. The Proponent will be pleased to address potential additional concerns during the ongoing consultation with Aboriginal groups and through input from traditional use studies currently being discussed.		

Tracking # (comment ID)	Date	Submitter	Category/ Theme	Section/subsection of the Document	Comment / Issue Raised	Proponent Response	Response to Proponent *(Proponent response in italics)*	EAO Conclusion
	June 24, 2016	PGL on behalf of Saulteau FNs, Wet Moberly FNs, MLIB	Caribou	Section 3.2.1, Table 3-2 – Ungulates; 4.5.3. Assessment of Project Effects and March 21, 2016 Memo Re: Red Willow Wind – Caribou VC Background and Studies	Please ensure that the assessment of potential direct and cumulative impacts on caribou integrates modelling and mapping developed by WMFN and SFN, and input from MLIB. The cumulative effects assessment should be based on a Regional Assessment Area, which reflects the traditional knowledge of First Nations, a historical reference point prior to population decline, and encompass an area the could support caribou recovery towards a sustainable population (i.e. not just the current range of caribou). A caribou 'habitat capability' assessment should also be completed to determine the availability of habitat under the optimal natural (seral) conditions, regardless of the current condition of habitat. Field sampling should be completed to support and refine the habitat capability model. The habitat capability model, in addition to the mapping developed by SFN and WMFN should form the basis upon which Project and cumulative impacts can be assessed and managed – with a vision towards protecting and restoring habitat that could support the recovery of caribou. Habitat requirements for recovery should have a higher relevance than current use of caribou. This approach to caribou assessment and conservation is important because government, industry experts, First Nations and other groups have noted that land use practices, like forestry and oil and gas, have altered the landscape to the point that caribou struggle to thrive. Forestry companies, for example, have lobbied the BC Government to instead consider drastic alternatives compared to land use or regulatory changes, such as wolf culling and maternal penning because they are unwilling to forego harvest opportunities. (http://www.theglobeandmail.com/news/british-columbia/documents-indicate-bc-wolf-cull-linked-to-forest-industry-concerns/article26968437/)			

From:	Perry, Monica EAO:EX
To:	Perry, Monica EAO:EX
Subject:	FW: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d"examen, Projet du Terminal 2 à Roberts Bank - séance d"orientation
Date:	Monday, June 27, 2016 6:40:42 PM

-----Original Message-----
From: Perry, Monica EAO:EX
Sent: Friday, June 24, 2016 12:52 PM
To: Haines, Kate EAO:EX
Subject: FW: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation

Kate, we should include this email. It has the draft schedule from the panel

-----Original Message-----
From: Myles,Debra [CEAA] [mailto:Debra.Myles@ceaa-acee.gc.ca]
Sent: Friday, June 24, 2016 7:25 AM
To: Panel.RBT2@ceaa.gc.ca
Subject: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation

Orientation Session
The Review Panel invites the public to attend, or observe via webcast, an orientation session where information will be provided by federal and provincial bodies that have a mandate and expertise in relation to the proposed Project and its potential environmental effects. The Project Proponent, the Vancouver Fraser Port Authority, will provide an overview of its responsibilities as they relate to marine activities. Although participants and the public will not have an opportunity to ask questions during the session, follow-up questions may be sent to the Panel for its consideration.
The Review Panel intends to provide a live webcast of the orientation session and to archive the video recording. A transcript of the proceedings will be posted on the Registry following the session. The orientation session will be held on Tuesday, June 28, 2016 from 9:00 am - 5:00 pm local time at Simon Fraser University - Segal Building, 500 Granville Street, Vancouver.
Please access the webcast at: http://events.xelivebroadcast.com/events/june28robertsbankterminal2/

The webcast viewing instructions are available at: http://xelivebroadcast.com/instructions/

The draft schedule for the orientation session is posted on the Registry at: http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

Séance d'orientation
La Commission d'examen invite le public à assister en personne ou par diffusion Web à une séance d'orientation au cours de laquelle des renseignements seront fournis par les organismes gouvernementaux fédéraux et provinciaux qui disposent du mandat et de l'expertise nécessaires relativement au projet proposé et à ses effets environnementaux potentiels. Le promoteur du projet, l'Administration portuaire Vancouver-Fraser, fournira un aperçu de ses responsabilités en ce qui concerne les activités maritimes. Bien que les participants et le public n'auront pas la possibilité de poser des questions au cours de la séance, des questions pourront être acheminées ultérieurement à la Commission pour examen.
La Commission d'examen souhaite offrir une webdiffusion en direct de la séance d'orientation et archiver l'enregistrement vidéo. Une transcription des procédures sera publiée dans le Registre après la séance. La séance d'orientation se tiendra mardi le 28 juin de 9 h à 17 h, heure locale, à l'Université Simon Fraser - Édifice Segal, 500,

rue Granville, Vancouver.
Si vous plaît suivez la webdiffusion à l'adresse Internet suivante :
http://events.xelivebroadcast.com/events/june28robertsbankterminal2/
L'instructions de la webdiffusion sont disponible à: http://xelivebroadcast.com/instructions/

Le horaire ébauche de la session d'orientation est affiché sur le Registre à: http://ceaa-acee.gc.ca/050/documents/p80054/114746F.pdf

Review Panel Secretariat, Roberts Bank Terminal 2 Project | Secrétariat de la commission d'examen, Projet du Terminal 2 à Roberts Bank c/o Canadian Environmental Assessment Agency | a/s de l'Agence canadienne d'évaluation environnementale 22nd Floor, 160 Elgin St. Ottawa ON K1A 0H3 | 160, rue Elgin, 22ième étage. Ottawa ON K1A 0H3 Panel.RBT2@ceaa.gc.ca / Commission.RBT2@acee.gc.ca
Tel: 613-957-0626 / toll free 1-866-582-1884 | Tél. : 613-957-0626 / sans frais: 1-866-582-1884

From: Tombs, Joanna EAO:EX
To: Cousins, Autumn EAO:EX
Cc: Perry, Monica EAO:EX
Subject: FW: Terminal A extension project - Rio Tinto Alcan contact July 1-12
Date: Wednesday, June 29, 2016 1:59:45 PM

Just an fyi, should someone from EAO need to contact Katja Otting, Rio Tinto Alcan between now and July 12, please contact Ian Dryden in her absence.

Joanna

From: Tombs, Joanna EAO:EX [mailto:Joanna.Tombs@gov.bc.ca]
Sent: Wednesday, June 22, 2016 11:57 AM
To: Otting, Katja (TI)
Subject: RE: Terminal A extension project - contact July 1-12

Thank you.

From: Otting, Katja (TI) [mailto:Katja.Otting@riotinto.com]
Sent: Wednesday, June 22, 2016 9:35 AM
To: Tombs, Joanna EAO:EX
Cc: Dryden, Ian (TI)
Subject: Terminal A extension project - contact July 1-12

Hi Joanna- Ian Dryden can be contacted for the Terminal A Extension project during my absence.
He is copied on this email
(...but I am here until end of day on June 30...)

Regards,

Katja Otting
Senior Advisor, Environment
Project Development and Studies, Primary Metal

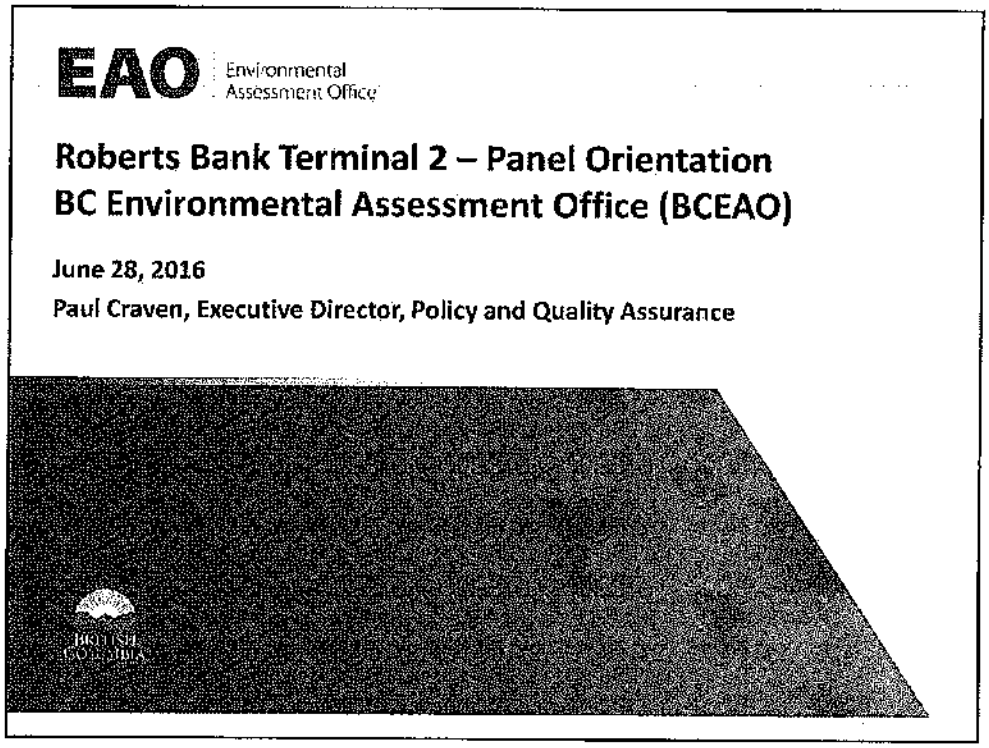
Rio Tinto Aluminium
Suite #354-200 Granville St, Vancouver, B.C. V6C 1S4, Canada

T: 1.604.687.0305 ext. 304 M: 1.778.875.8853
katja.otting@riotinto.com www.riotinto.com

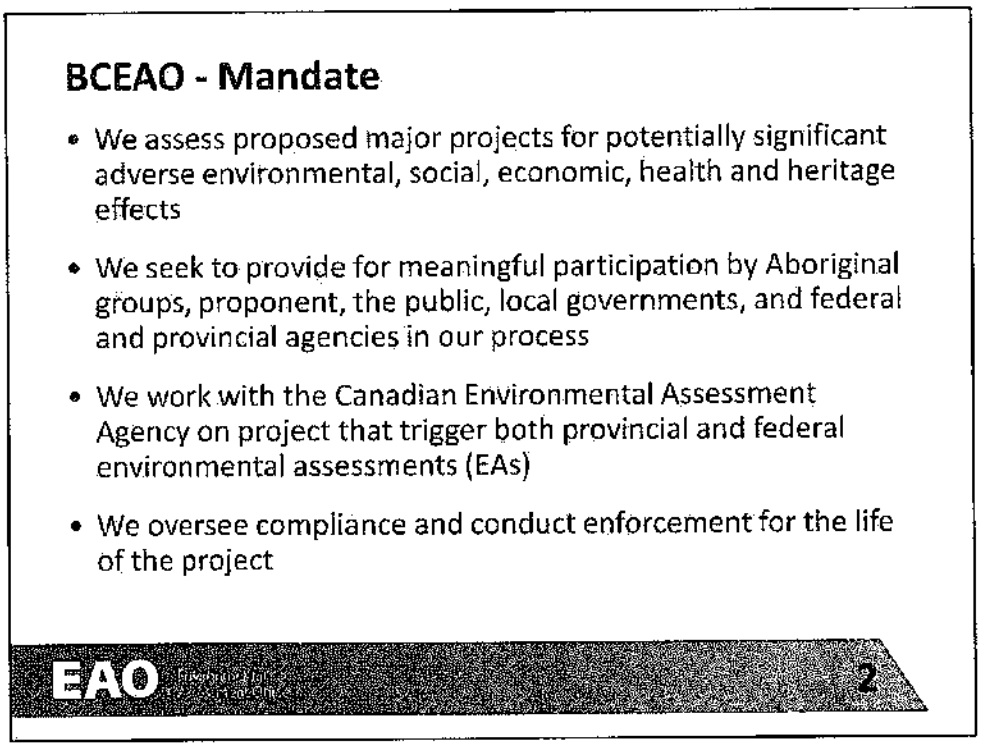
From:	Perry, Monica EAO:EX
To:	Perry, Monica EAO:EX
Subject:	FW: Use this version. June 28 Draft PPT presentation with notes.pptx
Date:	Monday, June 27, 2016 6:26:00 PM
Attachments:	June 28 Draft PPT presentation with notes.pptx

From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 6:26 PM
To: Craven, Paul EAO:EX
Cc: Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject: Use this version. June 28 Draft PPT presentation with notes.pptx

One correction made



Good afternoon. My name is Paul Craven; I am the Executive Director of the Policy and quality Assurance Branch. And with me today is Monica Perry, the Executive Project Director and Sector Lead for Transportation and Community Infrastructure. Also here today is one of the Project Leads for Roberts Bank Terminal 2 project, David Grace.



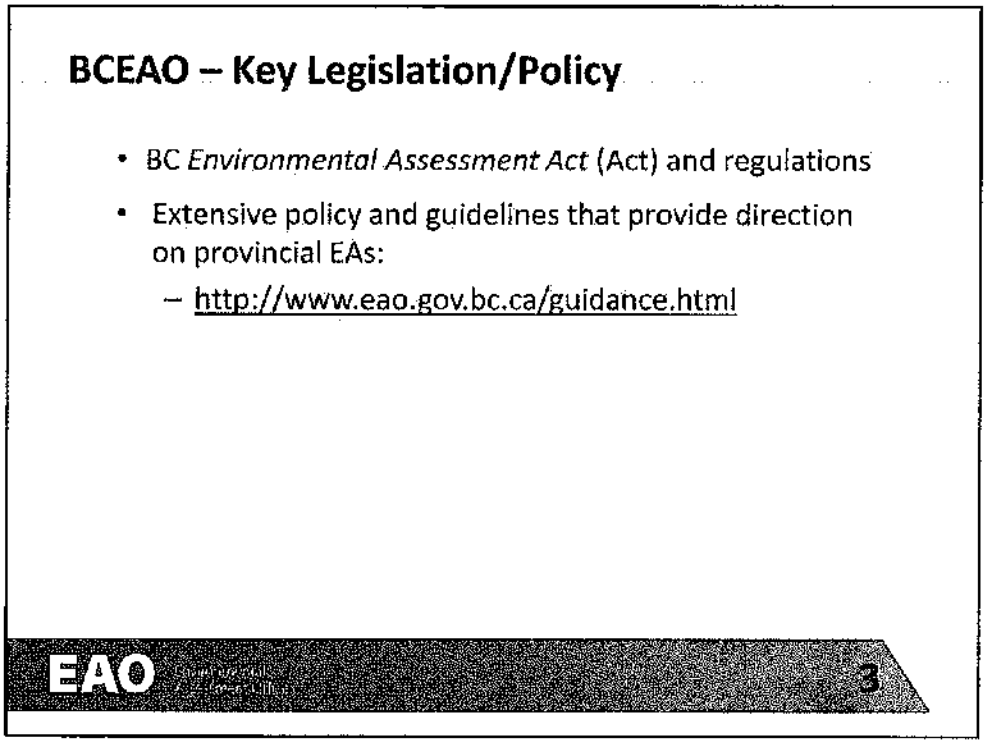
This slide gives an overview of the British Columbia Environmental Assessment Office's mandate and our Operating Framework.

- Environmental assessment in BC provides an integrated process for identifying, mitigating and evaluating the potential significant adverse environmental, economic, social, heritage, and health effects that may occur during the life of a reviewable project. We call these effects our five pillars.

- Opportunities for participation by government agencies, First Nations, local governments, stakeholders and the public is a key element of an environmental assessment. **We seek to provide for meaningful participation by Aboriginal groups, proponent, the public, local governments, and federal and provincial agencies in our process**

- We work with the Canadian Environmental Assessment Agency on projects that trigger both provincial and federal environmental assessments (EAs)

- We oversee compliance and conduct enforcement for the life of the project



The Environmental Assessment Office was established in 1995 to administer the environmental assessment process under the Environmental Assessment Act and its regulations and to verify and enforce compliance with the conditions of environmental assessment certificates.

The BC *Environmental Assessment Act* is the main legal framework for the province's environmental assessment process for proposed major projects. The Act is supported by several regulations as well as a variety of policy, procedure and technical guidelines.

The Environmental Assessment Act has six related regulations.

1. Proposed projects are reviewable if they meet or exceed certain thresholds defined in the **Reviewable Projects Regulation**. This regulation identifies thresholds for industrial, mining, energy, water management, waste disposal, food processing, transportation and tourist destination resort projects. Reviewable proposed projects are generally those with a higher potential for adverse environmental, economic, social, heritage or health effects.
The regulation includes thresholds for both new projects and the modification of existing projects.

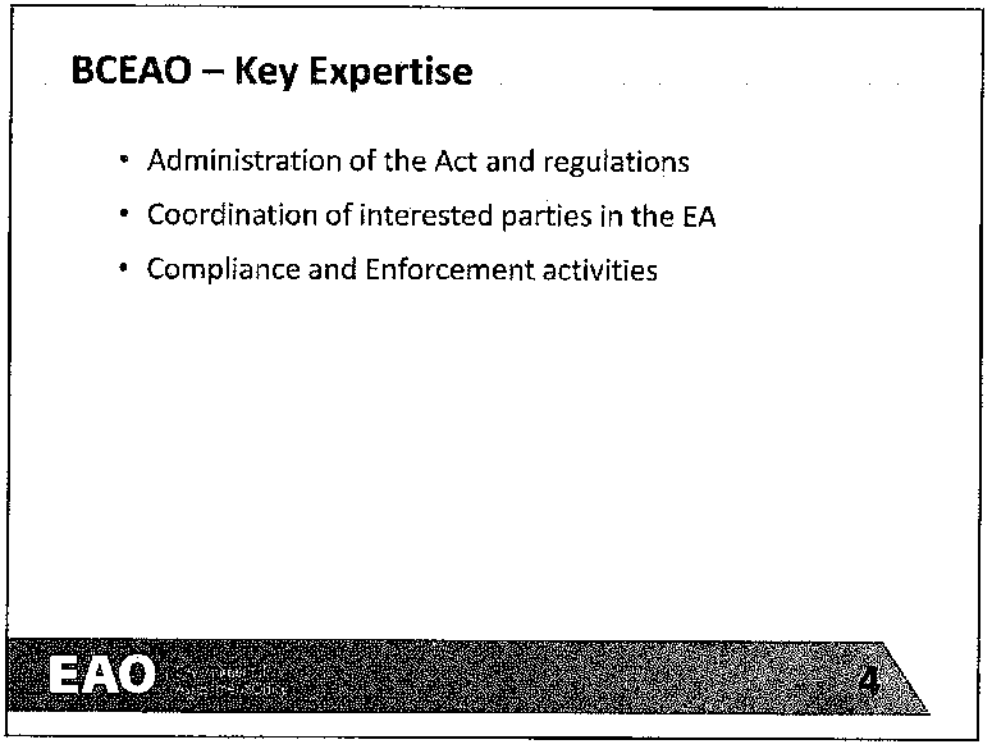
2. The **Prescribed Time Limits Regulation** requires that certain stages of the environmental assessment process be carried out within specified time limits.

3. The **Public Consultation Policy Regulation** identifies opportunities for public input during the environmental assessment process.

4. The **Concurrent Approval Regulation** outlines a process that allows a proponent to apply for concurrent review of other provincial approvals (e.g. licences and permits) for a proposed project that is undergoing an environmental assessment. This allows for the timely issuance of other required approvals if an environmental assessment certificate is granted. Where EAO allows for the concurrent review of permit applications, authorizations are generally made within 60 days of the issuance of an environmental assessment certificate.

5. The **Environmental Assessment Fee Regulation** outlines the fees associated with environmental assessments and other related services including certificate exemptions, extensions and amendments, and inspections of certified projects.

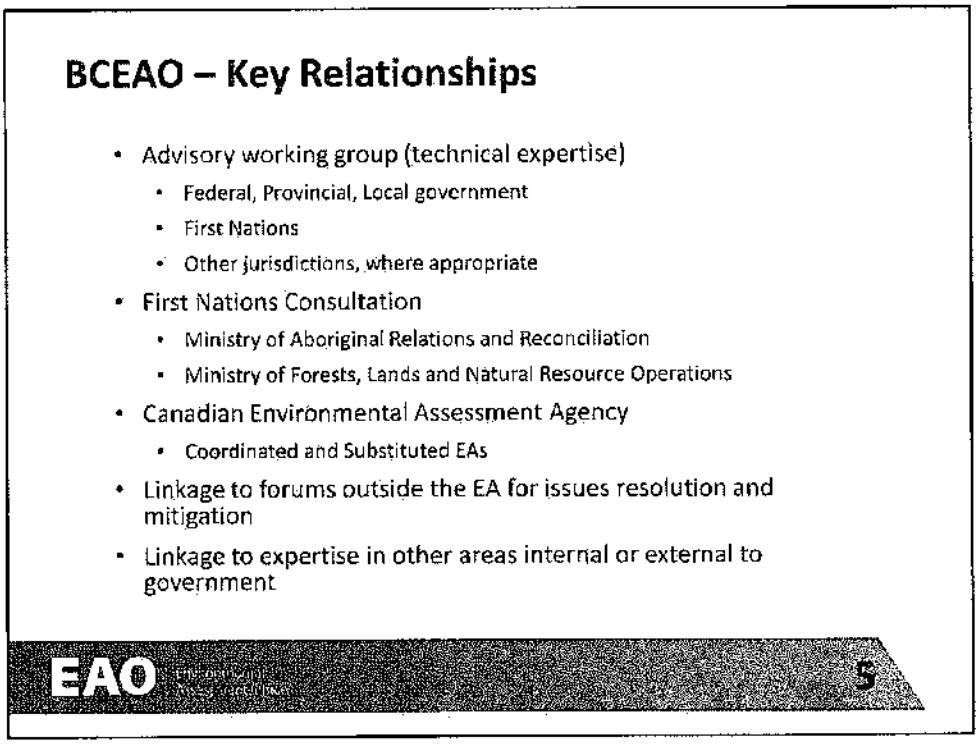
6. The **Transition Regulation** sets out rules for projects that were granted certain provincial permits and authorizations prior to December 30, 2002, and would have otherwise required an environmental assessment when the new Environmental Assessment Act came into force on this date.



- EAO administers the Environmental Assessment Act and its supporting regulations
- We coordinate involvement in the EA of all interested parties through an Advisory Group, including sub-groups of technical experts. Local, provincial and federal experts are invited to be members on these groups along with Aboriginal groups and are required to review and provide comments on relevant aspects of the assessment and on EAO's conclusions.
- We conduct compliance and enforcement activities during the construction, operation and decommissioning stages of certified projects. This often involves work with other government agencies to coordinate compliance oversight through inspections, reviewing the certificate holder's compliance self-reports, responding to complaints and other efforts.

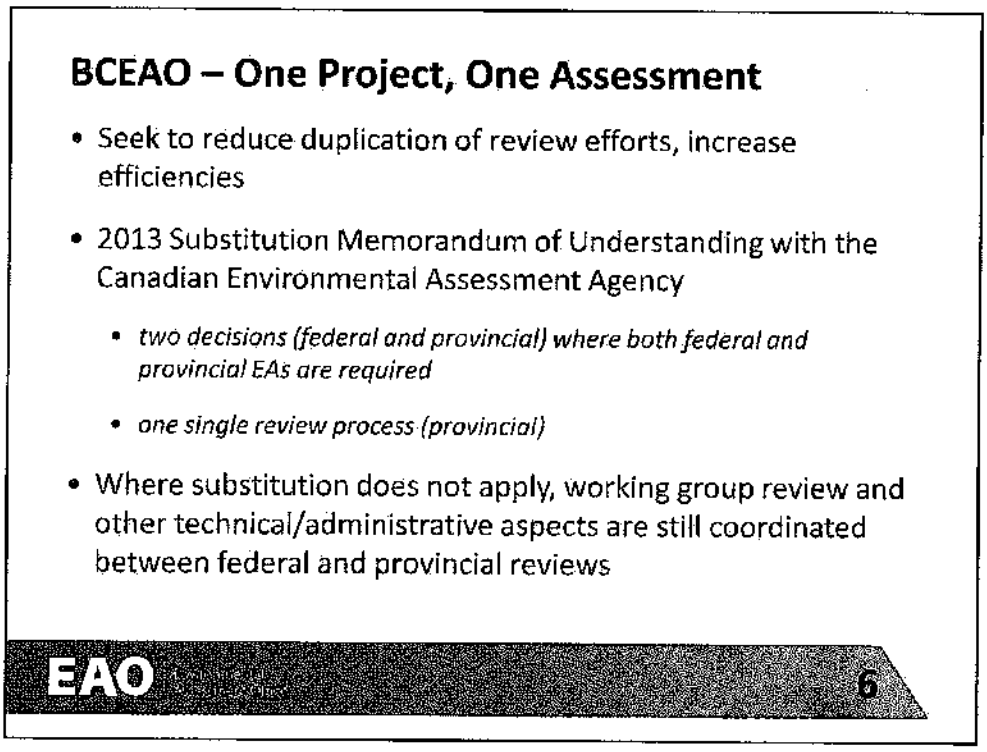
- Overall, we promote best practices in EA practices through our cooperation with cross-jurisdictional organizations and practitioner/academic communities.
- We also provide expertise to the provincial natural resources sector in the development of environmental stewardship initiatives including the provincial Cumulative Effects Framework and Environmental Mitigation strategy and Spill Response.

And we maintain a comprehensive public (online) record of its EAs of all major projects.



- We actively engage a range of interests and seek advice from governments and experts. EAO project teams lead working groups to identify issues and facilitate discussions with the proponent to see if the issues can be addressed. Advisory working groups include federal, provincial and local government representatives, First Nations and other jurisdiction (where appropriate).

- The environmental assessment process leads to a decision on whether to issue an environmental assessment certificate to a proponent. Accordingly, it calls forth the duty to consult and where appropriate accommodate First Nations when a decision or activity could impact treaty rights or asserted or established Aboriginal rights and title. EAO is committed to working constructively with First Nations to ensure that the Crown fulfills its duties of consultation and accommodation. We work closely with our agency partners on First Nation strength of claim assessment (particularly with FLNRO).



EAO is committed to working with the Canadian Environmental Assessment Agency (CEAA) to minimize duplication and to harmonize efforts wherever possible.

The Environmental Assessment Office and Canadian Environmental Assessment Agency work together by either: 1) entering into a substitution agreement to allow the provincial process for a proposed process to be substituted for the federal process; or 2) working together in a coordinated way to complete the review of a proposed project.

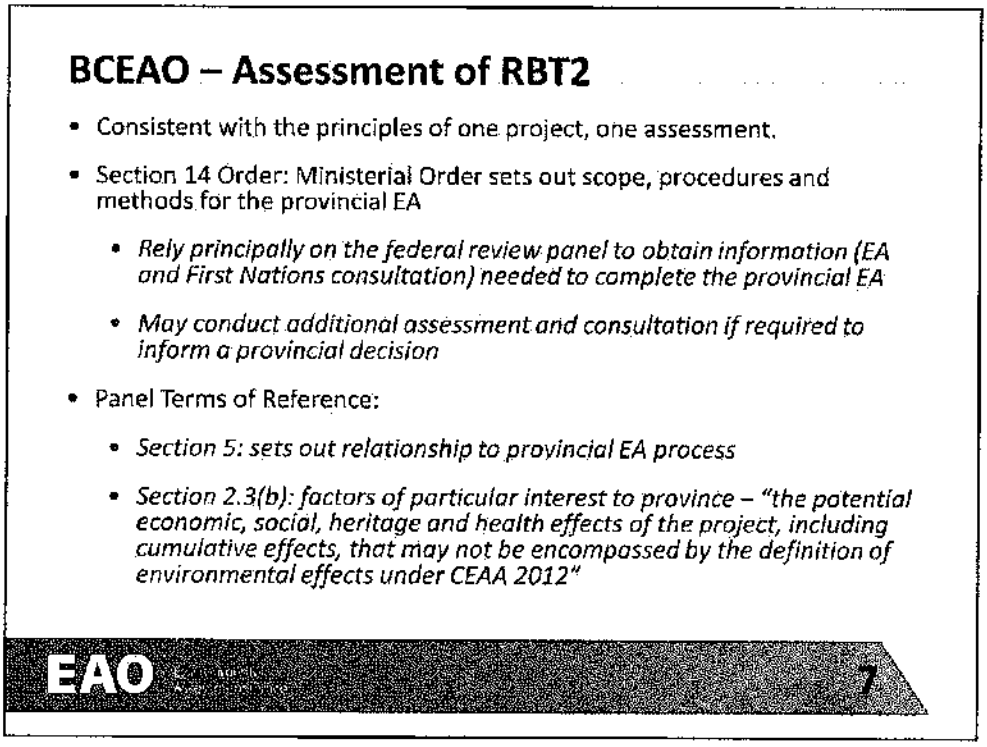
Substitution is a tool enabled by the Canadian Environmental Assessment Act, 2012 that allows the Environmental Assessment Office to conduct a single environmental assessment of a proposed project that meets the requirements of both federal and provincial legislation.

In 2013 EAO and the Canadian Environmental Assessment Agency signed a Memorandum of Understanding that establishes expectations, roles and procedures for implementing substitution of environmental assessments in BC.

The respective federal and provincial ministers then make their own decisions regarding the significance of the proposed project's environmental effects, the adequacy of Aboriginal consultation and whether to grant approval.

Under coordination, EAO and the Canadian Environmental Assessment Agency conduct

separate reviews but align process steps, consultation activities, public comment periods, and other activities to the extent possible.



On January 7, 2014, CEAA announced that the EA of the RBT2 project would be conducted by an independent federal review panel. The project triggers a provincial EA as it is a new marine terminal that involves dredging of more than two hectares of submerged land as triggered under our Reviewable Project Regulation.

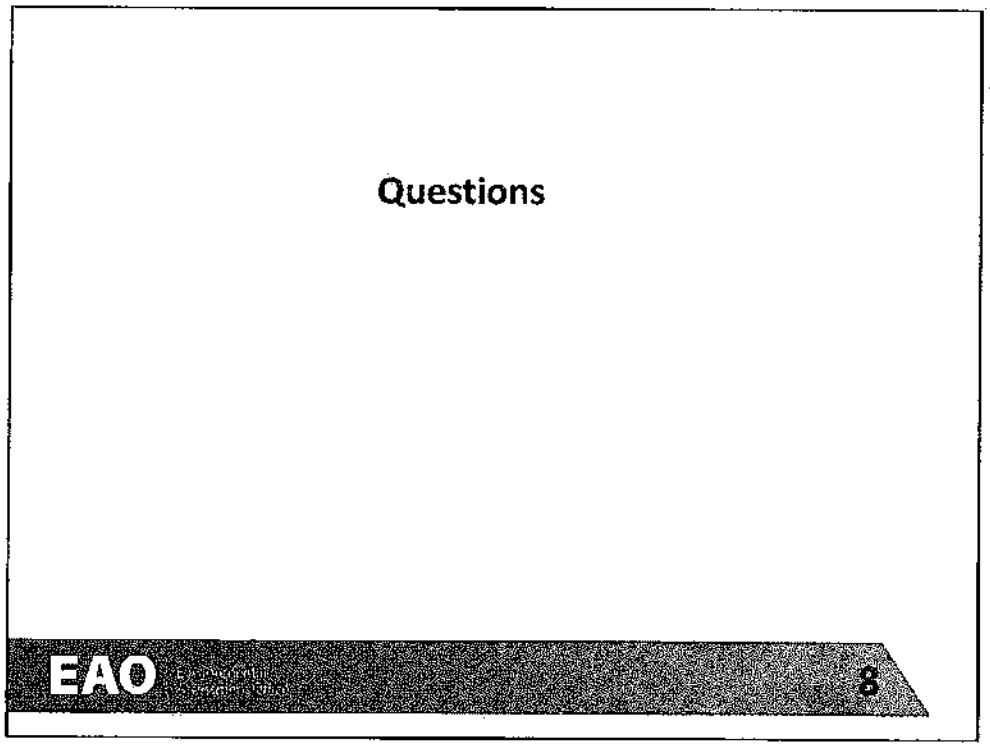
To avoid duplication and to ensure one efficient and effective EA, the Province will use the outcome of the federal review panel. On December 19, 2014, the Minister of Environment approved an order under Section 14 of the Environmental Assessment Act that sets out the process for RBT2 EA.

Following completion of the federal process, the Province will review the panel's recommendations and make a decision as to whether further assessment is required to address matters of provincial interest and the Executive Director (who is Kevin Jadine) has 5 months to consider the information provided by the panel to inform his recommendation to the provincial accountable Ministers (who for this project are the Minister of Environment and the Minister of Transportation). EAO intends to make a recommendation to provincial Ministers within 30 days of receiving notice of the federal decision on the project.
3.

Section 2.0 of the Panel's Terms of Reference outlines the "Factors to be Considered" for this assessment. EAO has an interest in the outcome of the Panel's review in

relation to sections 2.1 through 2.5 inclusive and in particular, section 2.3 (b) "the potential economic, social, heritage and health effects of the project, including cumulative effects, that may not be encompassed by the definition of environmental effects under CEAA 2012, and practicable means to mitigate such potential adverse effects."

As outlined in section 5.3 of the Panel's Terms of Reference, EAO is interested in ensuring that all information received by the Review Panel, subject to subsections 45(3), (4) and (5) of CEAA 2012, will be available to British Columbia.


Questions
EAO
8

From: Haines, Kate EAO:EX
To: Perry, Monica EAO:EX
Subject: Fwd: EAO Capacity Funding Draft 2
Date: Tuesday, June 28, 2016 1:40:32 PM
Attachments: EAO Capacity Funding Draft 2.docx
ATT00001.htm

Should I speak to the messages that Michelle gave at nrs Adms on capacity funding? Eg focus on high impact legacy projects? Just want to make sure it's ok to share outside gvt

Begin forwarded message:

> **From:** "Fenton, Chrystal EAO:EX" <Chrystal.Fenton@gov.bc.ca>
> **Date:** June 27, 2016 at 11:15:55 AM PDT
> **To:** EAO Executive Project Directors <EAOPODLE@Victoria1.gov.bc.ca>, EAO Managers <EAOMGR@Victoria1.gov.bc.ca>, "Bates, Julia EAO:EX" <Julia.Bates@gov.bc.ca>
> **Subject: EAO Capacity Funding Draft 2**
>
> Good morning, as discussed at OMT please find attached the EAO Capacity Funding document for your information and/or comment (to Monica).
>
> Thanks
> Chrystal

Page 2373 to/à Page 2374

Withheld pursuant to/removed as

DUPLICATE

Page 2375 to/à Page 2455

Withheld pursuant to/removed as

s.3

From: s.22
To: Perry, Monica EAO:EX
Subject: Fwd: Pt Holmes shoreline destruction
Date: Wednesday, June 29, 2016 3:00:53 PM
Attachments: armouring the shoreline.JPG
Current natural shoreline.JPG
exposed midden.JPG
Shoreline tobe replaced.JPG

I forward to you the following in support of an Environmetal Assessment of the subject land. As of right now two big machines are working at destruction.
Again, thank you for your consideration.
s.22

---------- Forwarded message ----------
From: **Comox Vallley Land Trust** <cvlandtrust@gmail.com>
Date: Fri, Jun 24, 2016 at 11:55 AM
Subject: Pt Holmes shoreline destruction

Yesterday morning, at the request of one of our CVLT members, I attended the site of shoreline modifications being undertaken by the Town of Comox along Lazo Rd in the Point Holmes area.
I offer the following observations and thoughts. I do not personally have time to wade into this issue further, but provide these insights in support of any advocacy work or social media activities any of you may be contemplating.

The current shoreline is comprised of a large, vegetated backshore dune. These kinds of dunes are one of the features now referred to as Coastal Sand Ecosystems, which also include sand spits, feeder bluffs and intertidal sand bars. Coastal Sand Ecosystems (CSE) occupy an extremely small percentage of BC's shoreline and are therefore naturally rare. In the Georgia Basin/Puget Sound/Salish Sea region this is particularly so, where these features occupy less than 500ha. Within this geography, these features are clustered into hot spots resulting from the glacial deposition of Quadra Sands. The Sidney Island/James Island/Island View Beach complex is one example. The Lazo/Goose Spit/Tree Island complex is another. Active coastal transport and deposition (e.g., shallow coastal areas) along with natural disturbance from winter storms and high winds is required to sustain CSEs in the long term. Sand dunes in particular are accretional landscapes where sand is deposited over long periods time by winds and tides. Erosion and re-deposition of sand within an active dune complex is a common phenomenon on an annual cycle, but sand deposition is typically net-positive over the long term. Wind blown dunes are particularly rare in the Georgia Basin, with only 2 known occurrences of remnant, semi-stabilized dunes remaining extant (Savary Island and Cape Lazo/Pt. Holmes).

Besides being rare on the landscape, CSE's also are unique in that they support ecological communities, plant and animal species that occur nowhere else in our coastal landscapes. Of 8 ecological communities described by scientists in BC which occur in these systems province-wide, 4 are listed by the BC Government as imperiled or critically imperiled (S1 or S1S2 - Red-listed). Many of the species which are endemic to this habitat are considered species at risk. Some of these species are among the most

Endangered in Canada, such as the Sand-verbena Moth (G1G2 S1 - Cosewic Endangred, BC Red-list). CSE's are often associated with eelgrass meadows in the nearshore sub-tidal zone. These ecosystems have also seen drastic declines and are of conservation concern. CSE's are also extremely important areas for beach spawning fish species such as Sand Lance. Seasonal aggregations of beach spawning fish, as well as Pacific Herring which spawn in the eelgrass meadows, are sometimes referred to as "forage fish" because of their important role in marine and intertidal trophic networks. For example, the hotspot areas where CSEs occur in our region are also recognized as Important Bird Areas (IBAs) by Bird Studies Canada due to the large numbers of sea birds which are attracted to, and depend on, this seasonal food source.

CSEs are highly threatened and degraded by human impacts. Many have been lost to coastal developments including residential developments, commercial and industrial development, transportation infrastructure, and incompatible recreational uses. As a result of these losses and in consideration of the natural rarity and high conservation value, the BC Government and Government of Canada has established a Coastal Sand Ecosystem Recovery Team. The Team has produced a CSE Status Report towards planning for and implement recovery actions for this ecosystem and its species. (http://www.raincoastappliedecology.ca/wp-content/uploads/2010/09/2011-Coastal-Sand-Ecosystem-Status-Report.pdf)

In the case of Comox, significant losses to CSEs have taken place and are ongoing. For example, the natural habitats of Goose Spit have been severely modified, but some important natural areas remain. Feeder bluffs along the Cape Lazo shoreline have been predominantly degraded by riprap armouring and have reduced supply the sand required to keep these features extant. Likewise the backshore dune complexes have been drastically reduced by residential development in the Point Holmes area. This is particularly unfortunate because this area is likely the only place on earth where Garry Oak - Shore Pine - Sand Dune communities occur.

The one segment of shore line in the Comox area that still contains a remnant natural backshore dune is currently being destroyed by the Town of Comox who have decided to armour that last remaining segment with riprap. This work is ongoing, and photos are attached. Along this segment of dune, there is also a historic First Nations shell midden. See attached photo. It seems highly likely that the shoreline stabilization works will impact this feature as well.

The consequence of this work is that the remaining natural dune vegetation in this area will be significantly reduced or lost due to the stabilizing effect of the riprap armouring. As is evident elsewhere, this will promote the establishment of shrubs and then trees over herbaceous dune plants. Species present on the site such as Silver Burweed and Beach Dunegrass will likely diminish in extent while woody species such as native roses, Douglas-fir and Sitka Spruce will increase. Given the high level of disturbance associated with the work, Scotch Broom and other invasive plants will likely become dominant in many places.

Dethier et al. (2016) have shown that over time, riprap armouring of shorelines in the Salish Sea region have geomorphic and ecological consequences to the sub-tidal areas. Specifically, the beach areas shorten and become steeper. This reduces the area available to beach spawning fishes, and decreases the availability of forage fish to sea birds and other marine species.
(http://www.sciencedirect.com/science/article/pii/S0272771416301007)

The work that is being undertaken to resist the dynamic natural processes of accretion and erosion will likely function for only a short period of time. Data suggests that the frequency and intensity of winter storms is increasing. This trend is evident in data which records wave heights and frequencies in coastal BC. Likewise, sea-level rise predictions summarized by Kerr Wood-Leidel for the BC Government suggest a increase of sea level of 1m by 2100. The guidelines for coastal development they prepared for the BC Government suggest coastal communities also plan for an additional 1.25m for storm surge. They have recommended a Flood Construction Level (FCL) of >5 meters above sea level for the east coast of Vancouver Island.
(http://www.env.gov.bc.ca/wsd/public_safety/flood/pdfs_word/coastal_floodplain_mapping-2011.pdf).

This project is being described by the Town of Comox as a "restoration" project. Merriam-Webster defines restoration as : " 1. the act or process of returning something to its original condition by repairing it, cleaning it, etc. 2. the act of bringing back something that existed before and 3. the act of returning something that was stolen or taken" The Society for Ecological Restoration defines ecological restoration as 'the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed' (SER, 2004). Clearly this project does not fit with either definition, and is not a restoration project. It is a shore line stabilization project, and as such achieves the opposite effect in respect to the dune and inter-tidal ecosystems which occur there.

From a conservation perspective, the CSE's in the Comox area are worthy candidates for a program of ecosystem restoration based on their high conservation values and rarity. To do so one would start with the removal of riprap and other forms of shoreline hardening, and proceed to scale back inappropriate recreational uses, control and remove invasive species, and remove native species in certain key locations where they are playing a stabilizing role. Further, re-establishing the barrier of kelp forests that once existed along the coastal margin would help to return the natural buffering effect to moderate the consequences of severe storms without unduly eliminating that natural process dynamic.

Tim Ennis, Executive Director
cvlandtrust@gmail.com
250.650.9561
www.cvlandtrust.ca








s.22

From: Perry, Monica EAO:EX
To: Denis, Alex EAO:EX
Subject: Fwd: Question
Date: Tuesday, June 28, 2016 10:51:35 AM

Alex. Are you in the office. I got sheldons out of office for this am

Sent from my iPhone

Begin forwarded message:

> **From:** <Monica.Perry@gov.bc.ca>
> **Date:** June 28, 2016 at 10:48:13 AM PDT
> **To:** <Sheldon.Foote@gov.bc.ca>
> **Subject: Question**
>
> What is the name of the woman who is our contact at the city of Richmond. If you don't recall off hand (as I can't recall), you can find her name in the correspondence/emails with May on the port exemptions.
>
> Sent from my iPhone

From: Gow, Lisa A TRAN:EX
To: Perry, Monica EAO:EX
Subject: Fwd: RBT2 Panel presentations - EAO presentation
Date: Tuesday, June 28, 2016 7:34:19 AM
Attachments: image002.jpg
image003.jpg

Hi Monica
Are you OK with this approach?

Sent from my iPhone

Begin forwarded message:

> **From:** "Gow, Lisa A TRAN:EX" <Lisa.Gow@gov.bc.ca>
> **Date:** June 28, 2016 at 7:32:35 AM PDT
> **To:** "Grace, David H EAO:EX" <David.Grace@gov.bc.ca>
> **Subject: Re: RBT2 Panel presentations - EAO presentation**
>
> Thanks David. Just a heads up, I will only be in Vancouver for the afternoon session. I also have a staff, Kirk Rockerbie, who will be joining me. Any issues?
>
> Sent from my iPhone
>
> On Jun 28, 2016, at 6:22 AM, Grace, David H EAO:EX <David.Grace@gov.bc.ca> wrote:
>
> > Good morning,
> >
> > Please find attached a pdf containing all of the Provincial presentations for the RBT2 Orientation session.
> >
> > Regards,
> > David
> >
> > **David Grace**
> > Project Assessment Manager
> > BC Environmental Assessment Office
> >
> > Tel: 250-387-1417
> > Cell: 250-818-7485
> > David.Grace@gov.bc.ca
> > <image002.jpg>
> >
> > ---
> >
> > **From:** Haines, Kate EAO:EX
> > **Sent:** Monday, June 27, 2016 11:15 AM
> > **To:** 'Panel.RBT2@ceaa.gc.ca'
> > **Cc:** Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX;

Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

<image003.jpg>

<RBT2 - All Presentations.pdf>

From: Craven, Paul EAO:EX
To: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Fwd: Roberts Bank
Date: Tuesday, June 28, 2016 2:03:00 PM

Meant to cc you.

Sent from my iPhone

Begin forwarded message:

> **From:** "Jardine, Kevin EAO:EX" <Kevin.Jardine@gov.bc.ca>
> **Date:** June 28, 2016 at 1:48:22 PM PDT
> **To:** "Craven, Paul EAO:EX" <Paul.Craven@gov.bc.ca>
> **Subject: RE: Roberts Bank**
>
> Excellent, thx, Paul. I appreciate the update and am glad to hear that the Panel recognises the positive role we've been playing (assuming that's not going too far).
>
> -----Original Message-----
> From: Craven, Paul EAO:EX
> Sent: Tuesday, June 28, 2016 1:46 PM
> To: Jardine, Kevin EAO:EX
> Subject: Roberts Bank
>
> Hi Kevin,
>
> We have just finished presenting to the panel. All went well. A couple of questions. The panel has clearly heard our message and acknowledged the coordination efforts required in such a short time frame.
>
> Monica, David and Kate did a great job in ensuring I was prepared and the process is running smoothly. Ministries are up now for the rest of the afternoon.
>
> Paul
>
> Sent from my iPhone

From: Perry, Monica EAO:EX
To: Grace, David H EAO:EX
Subject: Fwd: The Secrets of the Sales Grandmasters
Date: Tuesday, June 28, 2016 9:54:31 PM

Mike Lipkin. Do you remember him?

Sent from my iPhone

Begin forwarded message:

> **From:** Mike Lipkin <mike.lipkin@environics.ca>
> **Date:** June 28, 2016 at 4:02:27 AM PDT
> **To:** monica.perry@gov.bc.ca
> **Subject: The Secrets of the Sales Grandmasters**
> **Reply-To:** mike.lipkin@environics.ca
>
> Copyright

Page 2468

Withheld pursuant to/removed as

Copyright

Constant Contact



Try it free today

From: Perry, Monica EAO:EX
To: Haines, Kate EAO:EX; Hamblin, Gerry EAO:EX
Subject: FYI FW: Merit Commissioner Annual Report 2015 / 16
Date: Wednesday, June 29, 2016 2:52:00 PM
Attachments: 2015-2016_Annual_Report-Merit_Commissioner-double_page_view.pdf
image001.jpg

FYI only, no action required. I scanned it. Let me know if you want to discuss. I think MARR was one of the 8 requests and it lead to some significant delays in being able to hire people after we had run a competition.

This just emphasizing the importance of running really good competitions.

From: Jardine, Kevin EAO:EX
Sent: Wednesday, June 29, 2016 2:38 PM
To: EAO Senior Management Team
Subject: FW: Merit Commissioner Annual Report 2015 / 16

FYI...please share at your discretion.

From: Crozier, Bev ENV:EX
Sent: Wednesday, June 29, 2016 2:24 PM
To: Standen, Jim ENV:EX; Zacharias, Mark ENV:EX; Lewis, Kaaren ENV:EX; Laaksonen-Craig, Susanna ENV:EX; Carr, Michelle EAO:EX; Jardine, Kevin EAO:EX; Mihlar, Fazil ENV:EX
Subject: Merit Commissioner Annual Report 2015 / 16

For your review/interest.

Beverley Crozier
Senior Executive Assistant to Wes Shoemaker
Deputy Minister
Ministry of Environment
☎ 250-387-5429 | 250-387-6003 |

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Tuesday, June 28, 2016 10:46:19 PM

Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Wednesday, June 29, 2016 12:07:03 AM

Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Monday, June 27, 2016 2:33:53 AM



Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Monday, June 27, 2016 3:48:57 PM

Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Monday, June 27, 2016 6:13:55 PM



Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Tuesday, June 28, 2016 12:36:12 AM



Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Tuesday, June 28, 2016 2:16:38 AM



Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Tuesday, June 28, 2016 6:16:44 AM



Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Tuesday, June 28, 2016 8:53:23 AM



Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Tuesday, June 28, 2016 1:10:19 PM



Copyright

From: Google Alerts
To: Perry, Monica EAQ:EX
Subject: Google Alert - Site c
Date: Tuesday, June 28, 2016 3:04:33 PM



Copyright

From: Google Alerts
To: Perry, Monica EAO:EX
Subject: Google Alert - Site c
Date: Tuesday, June 28, 2016 9:26:56 PM



Copyright

From: Google Alerts
To: Perry, Monica FAO:EX
Subject: Google Alert - Revelstoke 6
Date: Monday, June 27, 2016 12:10:43 PM



Copyright

From: Coast Hotels
To: Perry, Monica EAO:EX
Subject: Hot Summer Savings - Monica, Save Up to 20% off
Date: Monday, June 27, 2016 3:44:13 PM

Copyright

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Copyright

From: MarketBeat.com
To: Perry, Monica EAO:EX
Subject: How Elon Musk could push ORRP to 286 pct. FAST
Date: Tuesday, June 28, 2016 4:47:38 AM

Copyright

Page 2487 to/à Page 2489

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Copyright

From: Perry, Monica EAO:EX
To: Craven, Paul EAO:EX
Cc: Grace, David H EAO:EX; Haines, Kate EAO:EX
Subject: June 28 Draft PPT presentation with notes.pptx
Date: Monday, June 27, 2016 6:07:00 PM
Attachments: June 28 Draft PPT presentation with notes.pptx

Paul, I have added some notes under each of the slides.

I will bring a hard copy (transcript) as well.

See you all tomorrow.

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DUPLICATE

From: Thede, Amy EAO:EX
To: Christie, Karen L EAO:EX; Antill, John EAO:EX; Ashcroft, Greg E EAO:EX; Pratt, Terry EAO:EX; Perry, Monica EAO:EX; Haines, Kate EAO:EX; Hamblin, Gerry EAO:EX; Hardie, Karie EAO:EX
Cc: Qureshi, Yasmeen EAO:EX
Subject: KB CAART - Wednesday, June 22 (internal confidential- legal advice)
Date: Monday, June 27, 2016 10:43:27 AM
Attachments: RE Okanagan nation activities in the West Kootenays (Confidential contains legal advice).msg
Communicating BC's Approach to SOC Assessments 17May16.docx
CA Summary - Solicitor-Client Privilege over TWSOC (26May16).docx
KNC Profile-May 5 2016.docx
image001.jpg

Hi all,

Here is the latest update from the Kootenay-Boundary CAART.

I would point out the notes regarding Communicating SOC Assessments and the Summary of JAG Advice if you haven't yet seen those items.

The presentation on the CEMF was very interesting, I would encourage you to check it out: http://www.elkvalleycemf.com/

Cheers,
Amy

Amy Thede, BES, MRM | Project Assessment Officer |
T 250.387.0291 | C 250.882.9532 | http://www.eao.gov.bc.ca/
email_signature_small

From: Cairns, Sue C ABR:EX
Sent: Thursday, June 23, 2016 4:38 PM
To: Adair, Bill J MNGD:EX; Ayele, Taye FLNR:EX; Bains, Rajeeta TRAN:EX; Carmody-Fallows, Jeanien ENV:EX; Cernenoks, Aina FLNR:EX; Chow, Emily FLNR:EX; Cofre, Conrad FLNR:EX; Dailey, Sharon H FLNR:EX; Disbrow, Jamie ABR:EX; Eskelin, Kevin FLNR:EX; Farber, Neil TRAN:EX; FitzGerald, Geraldine FLNR:EX; Fraser, Rick A FLNR:EX; Guido, Dawn FLNR:EX; Guido, Jim FLNR:EX; Giles, Wayne ABR:EX; Hendricks, Duane FLNR:EX; Hendrickson, Glen MEM:EX; Howard, Kathryn FLNR:EX; Hunter, Bill FLNR:EX; Ihas, Michele D TRAN:EX; Klingbeil, Karl B FLNR:EX; Kroschel, Jamie D FLNR:EX; Larade, Shawna FLNR:EX; Laroche, Russ FLNR:EX; Larouche, Isabelle FLNR:EX; Lee, Kevin FLNR:EX; Lucas, Brent M FLNR:EX; MacDonald, Rob V ENV:EX; McCuaig, Rieva FLNR:EX; Nichol, Christine TRAN:EX; Nolander, Reg W FLNR:EX; Osberg, Marty ABR:EX; Picard, Paul FLNR:EX; Rogers, Margaret FLNR:EX; Stephens, Leslie FLNR:EX; Weber-Roy, Amanda ENV:EX; Shibata, Elaine TRAN:EX; Smith, Darrell R AGRI:EX; Squirrell, Colin MEM:EX; Todd-Macdonald, Tara ABR:EX; Thede, Amy EAO:EX; Gulbaek-Pearce, Tomesine ENV:EX; Walton, Grant L FLNR:EX; Welch, Darin TRAN:EX; Drummond, Dawn B TRAN:EX; Yates, Jason FLNR:EX; Gulbaek-Pearce, Tomesine ENV:EX
Cc: Ayele, Taye FLNR:EX; Franck, Kevin G FLNR:EX
Subject: Follow up: KB CAART - Wednesday, June 22 (internal confidential- legal advice)

Hi All,

Thank you for yesterday's informative presentations: Taye on Cumulative Effects; and Rieva and

Alex on the spatialization of interests work underway.

As usual too many items to cover at the meeting, providing below (& in lieu of notes!):

- Briefing materials from the past few weeks KNC Exec Meetings are posted at: **2016 KNC Exec Meetings** (link).
- Okanagan Nation activities in West Kootenay (attached).
- s.14

Many topics are being discussed for fall, including dates for: Consultation101; SEA evaluation results, Cultural workshop; Senior Forum; Treaty Agreement in Principle direction; Comprehensive Reconciliation Agreement (see **2016 KNC Exec Meetings** (link) Negotiation Details for more information).

Next KB CAART Meeting is on July 20 which also overlaps with the Ktunaxa Nation Annual General Assembly (AGA July 20/21 in Creston), so suggest we attend the AGA instead. August 17 meeting is still scheduled to proceed at this time. Happy Summer!

Regards, *Sue*
Sue Cairns, Ministry of Aboriginal Relations and Reconciliation
Kootenay Boundary Region
Cranbrook Office 250-489-8543 sue.c.cairns@gov.bc.ca

Visit KB CAART at https://spc-marr.gov.bc.ca/FNCCT/Kootenay/default.aspx

Page 2504 to/à Page 2512

Withheld pursuant to/removed as

s.14;s.16

Ktunaxa Nation Council (KNC) Profile
May 2016

Governance

- Kathryn Teneese, Chair
- Chief Lorne Shovar, Councillor
- Chief Jim Whitehead, Councillor
- Chief Jason Louie, Councillor
- Dan Gravelle, Councillor

Information

- Pronunciation: too-nawh-ka
- Location: Kootenay Region
- Member Bands include: ʔakisq̓nuk, Yaqan nuʔkiy (Lower Kootenay), ʔaq̓am and Tobacco Plains
- Population approx. 1,087
- Address: 7468 Mission Road Cranbrook, BC V1C 7E5

Current Activities

- **Treaty Negotiations:** Ktunaxa Nation represented by the Ktunaxa Kinbasket Treaty Council (KKTC) since 1993.
  - Agreement-in-Principle under review by Ktunaxa Communities and Ktunaxa Government Sectors – decision to proceed to Final Agreement negotiations pending.
  - Treaty Land and Cash Offer presented in October, 2010, accepted with some conditions in February, 2012.
  - Wensley Bench Incremental Treaty Agreement (ITA) (2013) – s.16 ; land transfer process ready to go.
  - Creston ITA (2014) – INAC, Lower Kootenay Indian Band and Regional District of Central Kootenay completing conditions precedent to enable land transfers.
  - s.16

- **Strategic Engagement Agreement (SEA) - Senior Forum**
  - Resource Revenue and Benefits Sharing Standing Committee
    - s.16
    -
  - Shared Decision Making Standing Committee
    - 3-Year Implementation Plan, revised annually
    - Columbia Lake East Side Collaborative Partnership

Ktunaxa Nation Council (KNC) Profile
May 2016

- **SEA – Joint Resources Forum**
  - Historic Grievances Working Group
    - s.16

  - Ktunaxa Fish and Wildlife Management Technical Subcommittee
    - Mountain Caribou Recovery Planning
    - Periodic review of hunting and fishing regulations
  - Ktunaxa Parks and Protected Areas Management Technical Subcommittee
  - Ktunaxa Archaeological Resources Management Technical Subcommittee
    - BC Hydro Reservoir Archaeology Program (Arrow Lakes, Kinbasket Reservoir, Duncan Reservoir)
    - s.13,s.16

Other Significant Enagagement Processes

- BC First Nations Data Governance Initiative: Ktunaxa Demonstration Site
- s.16
-
-
- Canadian Columbia River Inter-tribal Fisheries Commission
- Elk Valley Water Quality Management Plan
- Elk Valley Cumulative Effects Management Framework
- Kootenay Lake Stewardship Partnership
- Koocanusa Recreation Advisory Committee
- Revelstoke Generation Unit 6 Environmental Assessment

Other Completed Negotiations

- Ktunaxa Nation Range Tenure Opportunities Agreement (2016) – with the parties for sign-off
- Tobacco Plains Indian Band Range Tenure Agreement (2016) – with the parties for sign-off
- Forest Tenure Opportunity Agreement (2013)
- Ktunaxa Nation Community Forest Agreement (2009)
- BC, Montana, Ktunaxa Nation Council, Confederated Salish and Kootenay Tribes Memorandum of Understanding and Cooperation (MOU) on Environmental Protection, Climate Action and Energy (2010)
- BC, Regional District of East Kootenay (RDEK) and Ktunaxa Nation Engagement Agreement on the Lake Koocanusa Area (2008)

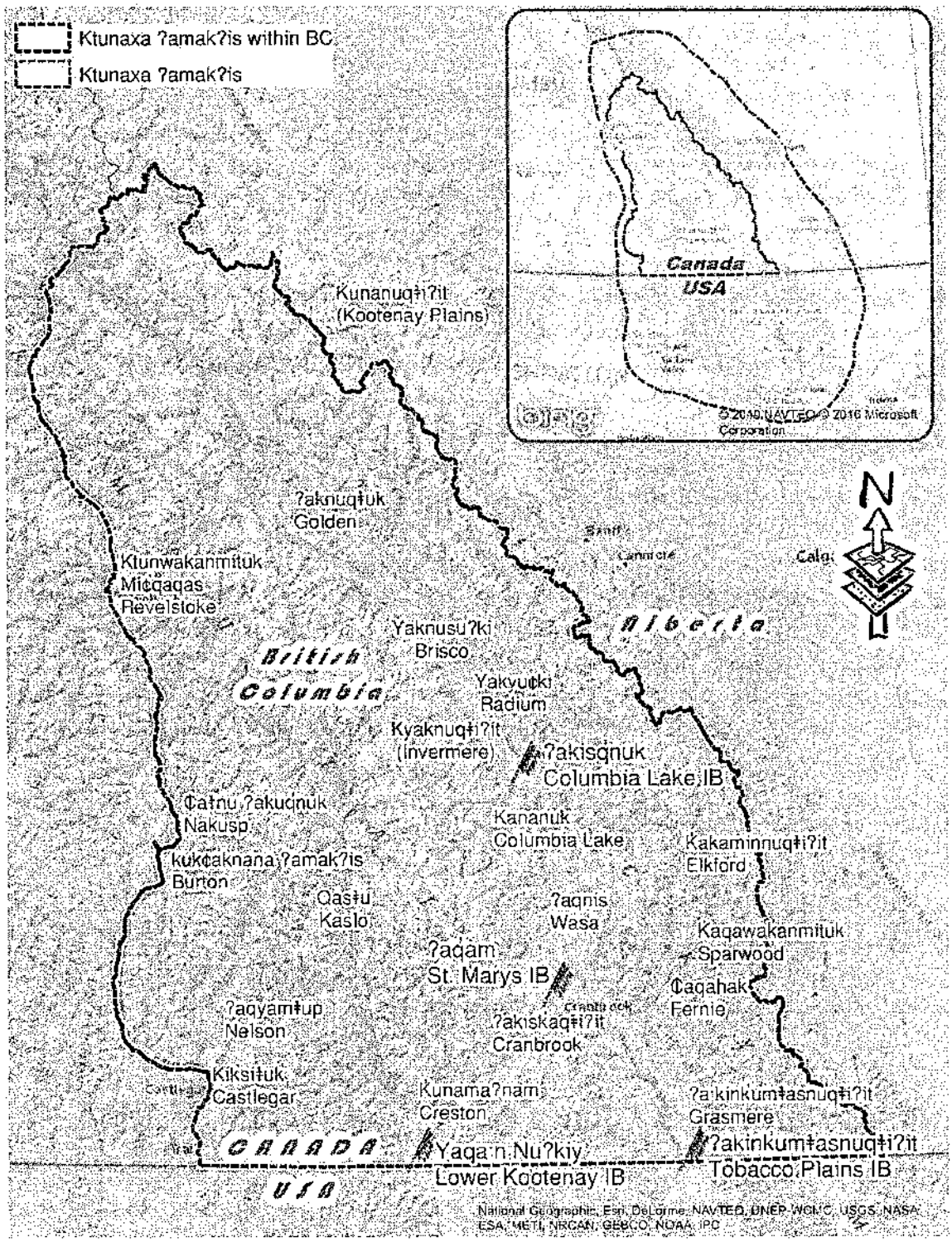
Ktunaxa Nation Council (KNC) Profile
May 2016

Issues and Opportunities:

- s.16
- s.16
- s.16
- ***Heritage Conservation Act* section 4 Pilot Initiative:** The KNC has submitted an application to the Heritage Conservation Branch to implement the *Heritage Conservation Act* section 4 Pilot Initiative. The Heritage Resource Management Working Group acceptance criteria include the following: First Nation expertise; existing database; and no overlapping First Nations or an agreement in place with overlapping First Nations.

s.16

Ktunaxa Nation Council (KNC) Profile
May 2016



Page 2517

Withheld pursuant to/removed as

DUPLICATE

From: MarketBeat
To: Perry, Monica EAO:EX
Subject: Let"s Do This Again: Up To 80% Off Tech & Gadgets
Date: Monday, June 27, 2016 6:59:21 AM

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Page 2519 to/à Page 2526

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Page 2527 to/à Page 2603

Withheld pursuant to/removed as

s.3

Page 2604

Withheld pursuant to/removed as

s.22

Page 2605 to/à Page 2770

Withheld pursuant to/removed as

s.3

From:	MarketBeat.com
To:	Perry, Monica EAO:EX
Subject:	MB Daily: Headlines and Analysts" Updates for 6/27/2016
Date:	Monday, June 27, 2016 11:37:11 AM

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Page 2772 to/à Page 2781

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From: MarketBeat.com
To: Perry, Monica EAO:EX
Subject: MB Daily: Headlines and Analysts" Updates for 6/28/2016
Date: Tuesday, June 28, 2016 11:26:00 AM

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Page 2783 to/à Page 2790

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From:	MarketBeat.com
To:	Perry, Monica.EAO:EX
Subject:	MB Daily: Headlines and Analysts' Updates for 6/29/2016
Date:	Wednesday, June 29, 2016 11:25:42 AM

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Page 2792 to/à Page 2800

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From: Perry, Monica EAO:EX
To: Dunae, Vanessa EAO:EX; Foote, Sheldon EAO:EX
Cc: Hamblin, Gerry EAO:EX
Subject: Meadows Quarry EPIC
Date: Wednesday, June 29, 2016 5:41:00 PM
Attachments: image001.png

Vanessa can you work with Sheldon to post the incoming requests for the Section 6 request. The only documents posted our ours and it seems odd that we would not post the requests as well. Thanks.

Monica Perry
Executive Project Director, Power and Community Infrastructure
Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208
cid:image001.png@01D10288.102B8370

Page 2802 to/à Page 3128

Withheld pursuant to/removed as

s.3

From: LinkedIn
To: Perry, Monica EAO:EX
Subject: monica: BC Public Service, Stantec, and Teck Resources Limited are looking for candidates like you.
Date: Tuesday, June 28, 2016 9:35:04 AM

Copyright

Page 3130 to/à Page 3131

Withheld pursuant to/removed as

Copyright

From: LinkedIn
To: Perry, Monica EAO:EX
Subject: monica, do you have experience in Strategic Planning or Public Speaking?
Date: Tuesday, June 28, 2016 10:56:41 AM

Copyright

From: Ernie Smith
To: Perry, Monica EAO:EX
Subject: monica, please add me to your LinkedIn network
Date: Wednesday, June 29, 2016 8:09:20 AM



Copyright

monica Perry 

From: Bruce Low
To: Perry, Monica EAO:EX
Subject: monica, please add me to your LinkedIn network
Date: Wednesday, June 29, 2016 10:37:18 AM



monica Perry 

Copyright

From: Batty, Adam EAO:EX
To: Perry, Monica EAO:EX; Haines, Kate EAO:EX
Subject: Narrows Inlet - check in & WG

From:	Batty, Adam EAO:EX
To:	Fenton, Chrystal EAO:EX
Cc:	Haines, Kate EAO:EX; Perry, Monica EAO:EX; Foote, Sheldon EAO:EX
Subject:	Narrows Inlet Amendment - Milestone Bullet
Date:	Wednesday, June 29, 2016 1:12:28 PM
Attachments:	Milestone Bullet - Narrows Inlet Amendmend_2 - Request Accepted.docx image001.png

Hi Chrystal,

Attached is a milestone bullet for Narrows Inlet Hydro Project. The Permit Holder has recently requested a second amendment to the EAC.

Thanks,
Adam

Adam Batty
Project Assessment Officer
Tel: (250)387-2502

www.eao.gov.bc.ca

Narrows Inlet Hydro Project (Minister Bill Bennett – Ministry of Energy and Mines):

On May 25, 2016, BluEarth Renewables Inc. submitted an Application to amend the Environmental Assessment Certificate for Narrows Inlet Hydro Project under section 19 of the Environmental Assessment Act. This second request to amend the Narrows Inlet Hydro Project proposes to modify the Upper Ramona Component intake and the location of the R1 Tributary intake for the Lower Ramona Component. Three minor changes related to correcting inconsistencies and design changes are also requested. On June 23, 2016, the EAO accepted the request for an amendment and established a workplan to review the request. The public comment period will run from July 13th to 27th, 2016.

Narrows Inlet Hydro Project is located approximately 50 km from Sechelt, BC and is a partnership between BluEarth Renewables and shíshálh (Sechelt) First Nation. Narrows Inlet Hydro Project received an Environmental Assessment Certificate on January 14, 2014, and an amendment on February 12, 2016.

Section of the Act	***Definition***
6	Minister's power to designate a project as reviewable
7	Application to executive director for reviewable project designation
10	Determination whether or not a reviewable project requires an Environmental Assessment Certificate
11	Issuance of an Order setting the scope, procedures and methods for the assessment
13	Issuance of a variation Order modifying the scope, procedures and methods for the assessment
16	Acceptance of an application into the 180-day review process following a determination that it contains the required information
18(4)	Extension of a Certificate
19	Amendment of a Certificate
24(2)	Time limit suspension
24(4)	Extensions of time limits by the minister or executive director
30	Issuance of a suspension Order

From:	Batty, Adam EAO:EX
To:	Yacyshen, Tom D FLNR:EX; Babakaiff, Scott C FLNR:EX; Moorhouse, Tara TRAN:EX; Malt, Joshua FLNR:EX; "jpaul@secheltnation.net"; "Courtney Smith (csmith@secheltnation.net) (csmith@secheltnation.net)"; XT:Klassen, Herb Fisheries and Oceans Canada EAO:IN; "david.rafael@scrd.ca"
Cc:	Haines, Kate EAO:EX; Perry, Monica EAO:EX
Subject:	Narrows Inlet Amendment #2 Review
Date:	Wednesday, June 29, 2016 1:29:34 PM
Attachments:	image001.png

Hello,

EAO has received a second amendment request (Cover letter, Application) from BluEarth Renewables in relation to the Upper and Lower Ramona Creek components of the Narrows Inlet Hydro Project. The Certificate Holder is seeking a number of changes, including:

- Project design changes at Upper Ramona Creek
    a. lake tap intake;
    b. water conveyance system;
    c. flow storage capacity and drawdown;
    d. downstream flow release; and
    e. instream flow requirement (IFR) release system.
- Project design changes at Lower Ramona Creek
    a. Lower Ramona intake type;
    b. R1 (Marten Creek) intake location; and
    c. R1 (Marten Creek) maximum diversion rate.

Revision to the Project boundary to encompass access roads to Chickwat Creek and entire transmission line corridor; and

IFR schedule for Chickwat Creek facility.

As a previous participant in the review of the first Narrows Inlet Amendment, we wanted to confirm if you will be able to participate in this review. Please respond by **Tuesday July 5th** if you are able to participate and what level of participation you are able to contribute (i.e., participate in the review, or stay involved by Cc on communications). After I receive confirmation, we will begin the process of setting up a conference call to discuss any issues identified by the review team. If you are not the correct contact, please identify who EAO should be contacting at your organization with respect to this amendment.

Next Step: EAO will be asking the review team to conduct a review of the Holder's Amendment Package and provide feedback as part of the amendment process. We will provide more information about this next step soon.

Thank you,
Adam

Adam Batty
Project Assessment Officer

Tel: (250)387-2502



www.eao.gov.bc.ca

From:	Yacyshen, Tom D FLNR:EX
To:	Davies, James W FLNR:EX; Harrower, Bill FLNR:EX; Babakaiff, Scott C FLNR:EX; "jpaul@secheltnation.net"; "Courtney Smith (csmith@secheltnation.net) (csmith@secheltnation.net)"; "Isabelle Deguise"; "Dlacroix@ecofishresearch.com"; "Dave Bates (dbates@fsci-biological.ca)"; Perry, Monica EAO:EX; Grant, Julia FLNR:EX
Cc:	Haines, Kate EAO:EX; Batty, Adam EAO:EX
Subject:	Narrows Inlet review meeting agenda June 29 2016
Date:	Monday, June 27, 2016 4:22:01 PM
Attachments:	Narrows Meeting Draft Agenda June 29 2016.docx

Hello:

Please find the agenda for our review meeting enclosed. Let me know if you have any additions.

Thank you

Tom Yacyshen

604-586-4203

From: Yacyshen, Tom D FLNR:EX
Sent: Wednesday, June 15, 2016 4:17 PM
To: Davies, James W FLNR:EX; Harrower, Bill FLNR:EX; Babakaiff, Scott C FLNR:EX; 'jpaul@secheltnation.net'; 'Courtney Smith (csmith@secheltnation.net) (csmith@secheltnation.net)'; Darling, May Y EAO:EX; 'Isabelle Deguise'; 'Dlacroix@ecofishresearch.com'; 'Dave Bates (dbates@fsci-biological.ca)'; Perry, Monica EAO:EX; Grant, Julia FLNR:EX
Cc: Haines, Kate EAO:EX; Batty, Adam EAO:EX; Malt, Joshua FLNR:EX
Subject: Narrows Inlet review meeting notes June 15 2016

Hello:

Please take a look at the enclosed meeting notes from our productive Narrows Inlet review meeting today.

Here are the action items for quick reference:

- Updated AEA:
  - **BE to discuss AEA review comments with Tim Bennett to set up third party review of the 27 + 5 points**
    - **BE contact Tom and Remko if clarification meeting with Scott is required**
  - **Tom set up a conference call with Scott, Tim and Remko in the next week to clarify next steps**
  - **Tom to forward AEA and 27 points to Water quality, terrain stability and fish experts for comment. Request target timelines for review comments**

- Connectivity Study TOR:
  - **Action Item: BE to submit Connectivity ToR to FLNRO by June 24**

- Ramona Investigative Road

s.13,s.16

- BE provided updated Management Plan to Lands Officer on May 19
    - 30 day Agency review sent out May 30 and June 1
    - Comments expected back from Forestry and Ecosystems and will be forwarded to BE for response
    - **Tom check with Julia on any comments received**

- **Tom to follow up with PA's on Land Act issues**

- EAO Amendment #2
    - **Tom set up FLNRO internal EAC Amendment review meeting**
        1. **Review pdf presentation**
        2. **Invite Isabelle to phone in or attend**
    - **Tom to invite Julia and Lindsay to WG**

Look forward to seeing you at our next call.

Tom Yacyshen

604-586-4203

From: Yacyshen, Tom D FLNR:EX
Sent: Wednesday, June 15, 2016 10:21 AM
To: Davies, James W FLNR:EX; Harrower, Bill FLNR:EX; Babakaiff, Scott C FLNR:EX; 'jpaul@secheltnation.net'; 'Courtney Smith (csmith@secheltnation.net) (csmith@secheltnation.net)'; Darling, May Y EAO:EX; 'Isabelle Deguise'; 'Dlacroix@ecofishresearch.com'; 'Dave Bates (dbates@fsci-biological.ca)'; Perry, Monica EAO:EX; Grant, Julia FLNR:EX
Subject: Narrows Inlet review agenda June 15 2016

Hello:

Please find the agenda for today's meeting enclosed.

We will defer the EAC presentation to a date when the team members are available.

Look forward to talking at 1:30.

Tom Y

From: Yacyshen, Tom D FLNR:EX
Sent: Monday, June 6, 2016 4:13 PM
To: Davies, James W FLNR:EX; Harrower, Bill FLNR:EX; Babakaiff, Scott C FLNR:EX; 'jpaul@secheltnation.net'; 'Courtney Smith (csmith@secheltnation.net) (csmith@secheltnation.net)';

Darling, May Y EAO:EX; 'Isabelle Deguise'; 'Dlacroix@ecofishresearch.com'; 'Dave Bates (dbates@fsci-biological.ca)'; Perry, Monica EAO:EX; Grant, Julia FLNR:EX
Subject: RE: Narrows Inlet review meeting notes June 1 2016

Hello:

Please find the meeting notes from Wed June 1, 2016.

I include the Action Items below for easy reference:

- **Action item: BE to send email to Tom with required timeline for issuance of new license. Tom to forward to Remko, Bryan Robinson and Jim.**
- **Action item: BE to update Dam Hazard Classification Assessment and design drawings to Robert**
- **Action Item: Remko to provide response to BE on outstanding connectivity issues**
- **Action Item: Tom to follow up regarding the FLNRO meeting with DFO**
- **Action Item: Tom to coordinate FLRNO review team of supporting documents**
- **Action item:** s.13,s.16
  s.13,s.16
- **Action Item: BE to sign and return Modification Agreement , LF 2409556, to PA**
- **Action Item: Tom to confirm SrPA has received documents and will execute the two agreements**
- **Action Item: BE to sign and return assignment package, LF 2411692, to SrPA**

Thanks and see you on June 15, 2016.

Tom Yacyshen

604-586-4203

From: Yacyshen, Tom D FLNR:EX
Sent: Wednesday, June 1, 2016 8:21 AM
To: Davies, James W FLNR:EX; Harrower, Bill FLNR:EX; Babakaiff, Scott C FLNR:EX; 'jpaul@secheltnation.net'; 'Courtney Smith (csmith@secheltnation.net) (csmith@secheltnation.net)'; Darling, May Y EAO:EX; 'Isabelle Deguise'; 'Dlacroix@ecofishresearch.com'; 'Dave Bates (dbates@fsci-biological.ca)'; Perry, Monica EAO:EX; Grant, Julia FLNR:EX
Subject: RE: Narrows Inlet review meeting June 1 2016

Please find a draft agenda enclosed and below for ease of reference. Let me know if there are any additions.

Narrows Agenda Wed June 1/16

FLNRO 4th floor Small boardroom

Conf Call: 1-877-353-9184 Participant : 4147192

New Chickwat Water Licence for the additional volume

- Application sent to vFCBC Mar 4/16 includes memo from Eco fish on spill rates
- Second water licence will not affect the LtCC as planned but is needed for financing
- Action item: BE/EF to prepare a memo of the spill from the current licence to the additional 1.47cms
    - Included in Mar 4 WL application
        - Scott Babakaiff has reviewed the memo
        - **Request target timeline from Jim for completion of technical report**

Chickwat LtCC

- LtCC Amendment
    - Construction of the Dam requires approval for the Dam Safety Office in Victoria prior to LtC
    - Robert McLean assessed the dam at 10.4m in height
        - Forwarded plan submission requirements to BE for Dam construction
    - **BE to contact Robert on requirements for LtC for the Dam**
- LtCC issued May 4, 2016
    - The issued LtCC indicates outstanding Connectivity issues to deal with prior to Diversion
        - Connectivity issues
            - Remko to forward under separate cover
            - Tom to remind Remko about the need for clarification on Connectivity
                - **Remko is preparing a response for BE**
        - OEMP 4 metrics review timeline
            - Tom forwarded FLNRO OEMP review comments to BE on May 9, 2016
                - Tom confirmed with Remko that these are the final issues regarding the OEMP as described in the LtCC
            - BE/EcoFish responded to FLNRO comments on May 19
            - **FLNRO satisfied with EF/BE responses. Kenji's email**

- **Tom checked with Remko, Kenji's response meets the requirements of the OEMP as outlined in section b) of the LtCC**

s.13

Ramona AEA

- **Submitted** Monday April 25.

s.13

- Priority is EAC Amendment Application for EAO then OEMP, ToR's to FLNRO
  - **EAC Amendment application forwarded on Friday May 27 2016**
  - **Tom to coordinate FLRNO review team**

s.13

Grizzly Bear Agreement

- Bill received a confirmation email from C and E
  - **Still need to draft the agreement management plan**
  - Ongoing agenda item

Ramona Investigative Road

- Land and Water Requirements sent to BE May 9, 2016
  - BE to forward Approval Application for creek crossings
    - Public referral and advertising waived

- Hedberg applied on behalf of BE
- **Send Tom the vFCBC tracking number as soon as known so it doesn't go to referrals**

- BE to forward Lands requirements to LO
  - 30 day Agency review
  - **BE forwarded updated management plan to LO**
    - **30 day Agency referral**

Land Act items (offline with BE, the LO and PL?)

- Chickwat Tx Line request to extend the offer
  - **SrPA sent an email confirming the extension until July 13, 2016, no further extension expected**
    - Rent will be retroactive to initial offer date
- Chickwat GAL for roads outside of current GaL
  - Agency referrals only so only a 30 day review
    - SrPA indicates a good chance of completion within 140 day tatt
    - **LO update**
- Camp Modification for Land Camp
  - SrPA sent BE Assignment Package on May 16, 2016
    - **BE to sign and return**
- Approval of management plan for floating tenure
    - Maxine sent the Crown Consent-no further work.

Resolved

From: Yacyshen, Tom D FLNR:EX
Sent: Friday, May 20, 2016 2:08 PM
To: Davies, James W FLNR:EX; Harrower, Bill FLNR:EX; Babakaiff, Scott C FLNR:EX; 'jpaul@secheltnation.net'; 'Courtney Smith (csmith@secheltnation.net) (csmith@secheltnation.net)'; Darling, May Y EAO:EX; 'Isabelle Deguise'; 'Dlacroix@ecofishresearch.com'; 'Dave Bates (dbates@fsc-biological.ca)'; Perry, Monica EAO:EX; Grant, Julia FLNR:EX
Subject: RE: Narrows Inlet review meeting Wed May 18 2016

Hello:

We had a small crew at the last meeting and made some good progress on the second Chickwat Water Licence, the Ramona AEA review, the Land Act tenuring and the Ramona Investigative Road!

Please review the notes below for more information. I have also enclosed them for ease of filing.

Page 3146 to/à Page 3154

Withheld pursuant to/removed as

s.16;s.13

From:	Craven, Paul EAO:EX
To:	EAO Staff - All
Subject:	New Policy: General Policy Application for the EA Act
Date:	Monday, June 27, 2016 8:29:39 AM
Attachments:	image002.jpg General Policy_Application fo the EA Act_June 2016.docx

Hi everyone,

s.13

Of course, if you have questions about the attached, please do not hesitate to contact me.

Paul

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748
email_signature

Page 3156 to/à Page 3158

Withheld pursuant to/removed as

DUPLICATE

From: Workflow Mailer
To: Perry, Monica EAO:EX
Subject: Open Notifications Summary: PERRY, MONICA
Date: Wednesday, June 29, 2016 6:04:55 AM

Summary of Notifications for 'PERRY, MONICA'

PLEASE DO NOT REPLY TO THIS EMAIL.

If you have any questions on how to proceed, please refer to the "Self Service Common Functions: Notifications, Approvals, Employee Profile" webhelp user documentation located on-line at http://gww.cas.gov.bc.ca/support/userdocumentation.asp or call your Ministry CAS Contact located at http://gww.cas.gov.bc.ca/support/ministrycontacts.asp.

This is a system generated email to advise you that you have open CAS Oracle Financials notifications (e.g. iExpenses, iProcurement, Purchasing).

Notifications are messages within the Oracle Application that advise of either a transaction status (FYI Notifications) or of an action that is required from you to complete a transaction (Action Notifications).

FYI Notifications listed below will be automatically closed the morning following this mailing (e.g. Approved Expense Report).

Action Notifications that require your attention in Oracle Financials will continue to be listed on these daily email reminders.

To view your notifications, log in to CAS Oracle Financials Application and navigate through BCGOV Self Service Common Functions / Advanced Worklist.

****

YOUR OPEN NOTIFICATIONS ARE:

From: BATH, LAUREN
Type: Expenses
Subject: Expense ER22160106 for BATH, LAUREN (13.80 CAD) has been submitted to another manager for approval
Sent: 28-Jun-2016
Due:
Priority: Normal
Notification Id: 65628275

From: BATH, LAUREN
Type: Expenses
Subject: Expense ER22160085 for BATH, LAUREN (106.73 CAD) has been submitted to another manager for approval
Sent: 28-Jun-2016
Due:
Priority: Normal
Notification Id: 65614276

From:	MarketBeat.com
To:	Perry, Monica EAO:EX
Subject:	[pic] 6-day profit window "pays" 33%?
Date:	Wednesday, June 29, 2016 3:39:16 AM

Copyright

Page 3162

Withheld pursuant to/removed as

Copyright

From: Marianne Long
To: Perry, Monica EAO:EX
Subject: Powerful relationships for business success. Join us July 20.
Date: Tuesday, June 28, 2016 1:22:51 PM

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From: Carsen, Dannie CSCD:EX
To: Perry, Monica EAO:EX
Subject: Presentation being confirmed by ADM this morning
Date: Monday, June 27, 2016 8:50:43 AM
Attachments: image001.png

Hello Monica,
I appreciate your confirmation of our key messages. CSCD slides being reviewed this morning by ADM Faganello have exactly the messages you describe.

1. Legislative authority for CC and LGA etc. gives local governments autonomy and provides for little CSCD oversight
2. Responsibilities of CSCD include transportation (TransLink), land use planning, and general local government operations
3. Lower mainland municipalities encompass over 50% of BC's population, they have capacity, interest and influence and they are enabled by our legislative framework to express opinions on local effects, issues and concerns about the project

s.13

Regards,

Dannie Carsen | Senior Program Analyst
Governance and Structure Branch | Ministry of Community, Sport and Cultural Development
Direct: **250.387.2188** | Fax: 250.387.7972 | Toll free 604-660-2421 in Vancouver or 1-800-663-7867

Email: Dannie.Carsen@gov.bc.ca | Website: http://www.cd.gov.bc.ca/lgd/

From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 8:34 AM
To: Carsen, Dannie CSCD:EX
Cc: Haines, Kate EAO:EX
Subject: presentation

HI Dannie, I got your message. Yes the panel (independent federal panel) is the audience. This is an orientation sessions so the panel what CSCDs mandate is, what regulatory/legislative authority and what "expertise" your ministry has in relation to the project. And yes, the key message wold be that local govt should be involved.

Monica Perry
Executive Project Director, Power and Community Infrastructure

Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208

cid:image001.png@01D10288.10288370



From: Perry, Monica EAO:EX
To: Carsen, Dannie CSCD:EX
Cc: Haines, Kate EAO:EX
Subject: presentation
Date: Monday, June 27, 2016 8:33:00 AM
Attachments: image001.png

HI Dannie, I got your message. Yes the panel (independent federal panel) is the audience. This is an orientation sessions so the panel what CSCDs mandate is, what regulatory/legislative authority and what "expertise" your ministry has in relation to the project. And yes, the key message wold be that local govt should be involved.

Monica Perry
Executive Project Director, Power and Community Infrastructure
Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208
cid:image001.png@01D10288.10288370



From: Perry, Monica EAO:EX
To: Foote, Sheldon EAO:EX
Subject: Question
Date: Tuesday, June 28, 2016 10:48:15 AM

What is the name of the woman who is our contact at the city of Richmond. If you don't recall off hand (as I can't recall). you can find her name in the correspondence/emails with May on the port exemptions.

Sent from my iPhone

From: Bailey, Scott EAO:EX
To: Braun, Nathan EAO:EX; Murphy, Shelley EAO:EX; Christie, Karen L EAO:EX; Perry, Monica EAO:EX
Subject: Quick Q: Standard notification list
Date: Wednesday, June 29, 2016 6:23:16 AM

Hi,

Does anyone know why health authorities are not part of the standard notification list for s10 orders? They used to be and now seem to have been purposefully removed?

This does not make sense to me as they are generally more involved than many of the ministries we include.

Sent from my Windows Phone

From:	Carsen, Dannie CSCD:EX
To:	"Panel.RBT2@ceaa.gc.ca"
Cc:	Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Haines, Kate EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
Subject:	RBT2 Panel presentations - CSCD Presentation
Date:	Monday, June 27, 2016 10:09:10 AM
Attachments:	Roberts Bank Terminal 2 CSCD Presentation June28.pptx

Good Morning,

Please see attached the MCSCD slides for the June 28th Review Panel Orientation Session of the RBT2.

Regards,

Dannie Carsen | Senior Program Analyst

Governance and Structure Branch | Ministry of Community, Sport and Cultural Development
Direct: **250.387.2188** | Fax: 250.387.7972 | Toll free 604-660-2421 in Vancouver or 1-800-663-7867
Email: Dannie.Carsen@gov.bc.ca | Website: http://www.cd.gov.bc.ca/lgd/

From: Haines, Kate EAO:EX
Sent: Friday, June 24, 2016 2:01 PM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX
Subject: RBT2 Panel presentations - update from EAO

Good afternoon,

I am writing to follow up with details regarding next week's presentations at the RBT2 federal review panel orientation session.

First, presentations are due in to the panel "no later than **Monday June 27, 2016 at 12:00 pm PST**. Presentations should be in powerpoint format. All submissions are to be sent to the Review Panel at Panel.RBT2@ceaa.gc.ca."

Please also copy your powerpoint presentation to the recipient list in this email so that we can all have a chance to review each other's submissions and have an opportunity to ask each other any questions of clarification on cross cutting issues.

Attached for your reference are EAO's draft deck, a table summarizing the key provincial contacts/presenters, and an email with some more details about the schedule for Tuesday's

panel session.

Kevin Jardine will be circulating the response letter to the panel (coordinated by EAO this week) to his deputy colleagues later today – we are still waiting on one ministry's response.

Monica and I are both available this afternoon and Monday to connect on the phone and discuss anything that still requires clarification. Thanks for your hard work to pull this information together for the panel so quickly.

Thanks,

Kate

--

Kate Haines

Project Assessment Manager

250-387-2174

Kate.Haines@gov.bc.ca

From:	Haines, Kate EAO:EX
To:	"PanelRBT2@ceaa.gc.ca"
Cc:	Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Bradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject:	RBT2 Panel presentations - EAO presentation
Date:	Monday, June 27, 2016 11:15:00 AM
Attachments:	June 28 Draft PPT presentation.pptx image001.jpg

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Bailey, Scott EAO:EX
To: Perry, Monica EAO:EX
Subject: RE: Are you off this week?
Date: Wednesday, June 29, 2016 12:06:03 PM
Attachments: image001.png

I am here. Tomorrow?

Sent from my Windows Phone

From: Perry, Monica EAO:EX
Sent: 2016-06-29 11:46 AM
To: Bailey, Scott EAO:EX
Subject: Are you off this week?

Hi Scott, I wanted to touchbase with you on the capacity funding piece but I seem to recall that you may be off? If you are not, can you give me a call? Many thanks.

Monica Perry
Executive Project Director, Power and Community Infrastructure
Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208
cid:image001.png@01D10288.102B8370



From:	Perry, Monica EAO:EX
To:	Bailey, Scott EAO:EX
Subject:	RE: Are you off this week?
Date:	Wednesday, June 29, 2016 12:09:00 PM
Attachments:	image001.png

Yes, I will have things fleshed out a bit more.

From: Bailey, Scott EAO:EX
Sent: Wednesday, June 29, 2016 12:06 PM
To: Perry, Monica EAO:EX
Subject: RE: Are you off this week?

I am here. Tomorrow?

Sent from my Windows Phone

From: Perry, Monica EAO:EX
Sent: 2016-06-29 11:46 AM
To: Bailey, Scott EAO:EX
Subject: Are you off this week?

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Monica Perry
Executive Project Director, Power and Community Infrastructure
Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208
cid:image001.png@01D10288.102B8370



From: Perry, Monica EAO:EX
To: Dunae, Vanessa EAO:EX; Hamblin, Gerry EAO:EX
Subject: RE: Burnco Timing (Revised Proposal)
Date: Wednesday, June 29, 2016 11:27:00 AM

Thanks Vanessa. Great work and thank you for the observation on where we are at with screening time. We need to issue the order as well and we may need to communicate that it needs to be in this week or potentially we cannot accept it (which in practice doesn't change things really). But I would like us to work toward only extending for 30 days and then signing off on the Thursday.

Again, it seems to me that our review should be faster and easier than Canada's given the nature of the suggested changes.

From: Dunae, Vanessa EAO:EX
Sent: Wednesday, June 29, 2016 11:22 AM
To: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Dunae, Vanessa EAO:EX
Subject: Burnco Timing (Revised Proposal)

Revised timelines for proposed Burnco App Review, public comment period and open houses. This allows Burnco up to Monday morning to resubmit application, one week for EAO/CEAA to rescreen and signoff, one week lead-time for newspapers to print notice and staggered open houses to provide flexibility for public participation.

By the way, we are currently at Day 51 of the Screening period (30 days + 21). By signing off on Friday, July 8, we will be extending the Screening period by 31 days.

Day	Date	Milestone/Note	App Review 180 Days	PCP 45 Days
Thursday	June 30	Burnco resubmits application for final screening	--	--
Friday	July 1	Statutory holiday (Canada Day)	--	--
Monday	July 4	CEAA and EAO review resubmission	--	--
Friday	July 8	EAO application screening signoff	--	--
Monday	July 11	Burnco distributes notice to media Burnco distributes application for review (week of July 11-15)	-7	-14
Monday	July 18	Notice of public comment period and open houses appears App Review period begins	1	-7
Monday	July 25	Public comment period begins	7	1
Monday	August 1	Statutory holiday (BC Day)	14	7
Monday	August 8	Proposed open houses (week of August 8-12)	21	14
Monday	August 15	Proposed open houses (week of August 15-19)	28	21
Monday	Sept 5	Statutory holiday (Labour Day)	49	42
Thursday	Sept 8	Public comment period closes	52	45

Saturday	Jan 14	App Review period closes	180	--

From: Dunae, Vanessa EAO:EX
Sent: Tuesday, June 21, 2016 2:36 PM
To: 'Derek Holmes'; Alan Calder; 'Hajdu,Rob [CEAA]'; Ferguson,Laramie [CEAA]; 'Stefan.Crampton@ceaa-acee.gc.ca'
Cc: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Batty, Adam EAO:EX; Dunae, Vanessa EAO:EX
Subject: Burnco Timing for Application Review and Public Comment Period

Below are two potential timelines, as discussed. It may be useful to coordinate another call before our next scheduled teleconference on July 5. Please advise if Tuesday June 28 from 130 to 2pm suits.

For open houses/information sessions July 18-19-20

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Tuesday	July 19	Proposed open house/information session and site visit
Wednesday	July 20	Proposed open house/information session
Wednesday	August 31	Public comment period closes

This allows Burnco four business days to resubmit application, and four business days for rescreening (per stat holiday)

For open houses/information sessions July 25-26-27

Thursday	June 30	Burnco resubmits application for final screening
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Tuesday	July 26	Proposed open house/information session and site visit
Wednesday	July 27	Proposed open house/information session

Wednesday	Sept 7	Public comment period closes

This allows Burnco seven business days to resubmit application, and five business days for rescreening

From: Dunae, Vanessa EAO:EX
To: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX
Subject: RE: Burnco Timing (Revised Proposal)
Date: Wednesday, June 29, 2016 11:33:07 AM

I've updated the table to reflect a Thursday sign off. I'll send you both a calendar booking when I've confirmed a call time with Canada this afternoon.

Day	Date	Milestone/Note	App Review 180 Days	PCP 45 Days
Thursday	June 30	Burnco resubmits application for final screening	--	--
Friday	July 1	Statutory holiday (Canada Day)	--	--
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Monday	Sept 5	Statutory holiday (Labour Day)	49	42
Thursday	Sept 8	Public comment period closes	52	45
Saturday	Jan 14	App Review period closes	180	--

From: Perry, Monica EAO:EX
Sent: Wednesday, June 29, 2016 11:27 AM
To: Dunae, Vanessa EAO:EX; Hamblin, Gerry EAO:EX
Subject: RE: Burnco Timing (Revised Proposal)

Thanks Vanessa. Great work and thank you for the observation on where we are at with screening time. We need to issue the order as well and we may need to communicate that it needs to be in this week or potentially we cannot accept it (which in practice doesn't change things really). But I would like us to work toward only extending for 30 days and then signing off on the Thursday.

Again, it seems to me that our review should be faster and easier than Canada's given the nature of the suggested changes.

From: Dunae, Vanessa EAO:EX
Sent: Wednesday, June 29, 2016 11:22 AM

To: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Dunae, Vanessa EAO:EX
Subject: Burnco Timing (Revised Proposal)

Revised timelines for proposed Burnco App Review, public comment period and open houses. This allows Burnco up to Monday morning to resubmit application, one week for EAO/CEAA to rescreen and signoff, one week lead-time for newspapers to print notice and staggered open houses to provide flexibility for public participation.

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From: Dunae, Vanessa EAO:EX
Sent: Tuesday, June 21, 2016 2:36 PM
To: 'Derek Holmes'; Alan Calder; 'Hajdu,Rob [CEAA]'; Ferguson,Laramie [CEAA]; 'Stefan.Crampton@ceaa-acee.gc.ca'
Cc: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Batty, Adam EAO:EX; Dunae, Vanessa EAO:EX
Subject: Burnco Timing for Application Review and Public Comment Period

Below are two potential timelines, as discussed. It may be useful to coordinate another call before our next scheduled teleconference on July 5. Please advise if Tuesday June 28 from 130 to 2pm suits.

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This allows Burnco seven business days to resubmit application, and five business days for rescreening

From: Hamblin, Gerry EAO:EX
To: Perry, Monica EAO:EX; Dunae, Vanessa EAO:EX
Subject: RE: Burnco Timing for Application Review and Public Comment Period
Date: Monday, June 27, 2016 11:58:49 AM

There's nothing to say we can't do that but we're not giving the public much opportunity to review the information prior to the open house which we might hear about.

From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 11:54 AM
To: Dunae, Vanessa EAO:EX; Hamblin, Gerry EAO:EX
Subject: RE: Burnco Timing for Application Review and Public Comment Period

Hi there, Rob just called me to ask if there are any "issues" with having the public comment period and the first Open House on the same day. I said that I didn't think there was, but he was wondering if there is a requirement to have a week of public comment prior to an Open House (or something like that given our very precise timelines).

From: Perry, Monica EAO:EX
Sent: Friday, June 24, 2016 2:23 PM
To: Carter, Rumon EAO:EX
Subject: FW: Burnco Timing for Application Review and Public Comment Period

Here are the timelines. Burnco say they are resubmitting on June 27 (this Monday). If they miss the Monday date, then we would go to the next set of dates.

From: Dunae, Vanessa EAO:EX
Sent: Tuesday, June 21, 2016 2:36 PM
To: 'Derek Holmes'; Alan Calder; 'Hajdu,Rob [CEAA]'; Ferguson,Laramie [CEAA]; 'Stefan.Crampton@ceaa-acee.gc.ca'
Cc: Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Batty, Adam EAO:EX; Dunae, Vanessa EAO:EX
Subject: Burnco Timing for Application Review and Public Comment Period

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From: Perry, Monica EAO:EX
To: Dunae, Vanessa EAO:EX; Hamblin, Gerry EAO:EX
Subject: RE: Burnco Timing for Application Review and Public Comment Period
Date: Monday, June 27, 2016 11:54:00 AM

HI there, Rob just called me to ask if there are any "issues" with having the public comment period and the first Open House on the same day. I said that I didn't think there was, but he was wondering if there is a requirement to have a week of public comment prior to an Open House (or something like that given our very precise timelines).

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Sent: Friday, June 24, 2016 2:23 PM
To: Carter, Rumon EAO:EX
Subject: FW: Burnco Timing for Application Review and Public Comment Period

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Wednesday	Sept 7	Public comment period closes

This allows Burnco seven business days to resubmit application, and five business days for rescreening

From: Craven, Paul EAO:EX
To: Perry, Monica EAO:EX
Subject: Re: Compliance
Date: Tuesday, June 28, 2016 2:02:13 PM

Not sure what they mean. We coordinate enforcement based on who is the best places regulator that could be us or MOE depending.

Sent from my iPhone

> On Jun 28, 2016, at 1:50 PM, Perry, Monica EAO:EX <Monica.Perry@gov.bc.ca> wrote:
>
> Are we tier one law enforcement? They asked mark about moe compliance.
>
> Sent from my iPhone

From: Perry, Monica EAO:EX
To: Craven, Paul EAO:EX
Subject: Re: Compliance
Date: Tuesday, June 28, 2016 2:23:22 PM

Yes that is what I have heard autumn say. I think the question was in relation to level of authority like is during orders etc which we can do. So just wondering if our c&e have same authority

Sent from my iPhone

> On Jun 28, 2016, at 2:02 PM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:
>
> Not sure what they mean. We coordinate enforcement based on who is the best places regulator that could be us or MOE depending.
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>>
>> Are we tier one law enforcement? They asked mark about moe compliance.
>>
>> Sent from my iPhone

From:	Jardine, Kevin EAO:EX
To:	Haines, Kate EAO:EX
Cc:	Neilson, Kirsten EAO:EX; Perry, Monica EAO:EX; Grace, David H EAO:EX; Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject:	RE: EAO - draft presentation for RBT2 panel orientation session
Date:	Monday, June 27, 2016 9:50:16 AM
Attachments:	image001.jpg

Excellent. This looks great, thx, Kate.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 9:14 AM
To: Jardine, Kevin EAO:EX
Cc: Neilson, Kirsten EAO:EX; Perry, Monica EAO:EX; Grace, David H EAO:EX; Waters, Cory EAO:EX; Fenton, Chrystal EAO:EX; Loiacono, Sabrina EAO:EX
Subject: EAO - draft presentation for RBT2 panel orientation session

Good morning Kevin,

Please find attached the draft presentation for tomorrow's presentation to the RBT2 panel orientation session. It is based on the letter sent Friday, and incorporates suggestions from Monica Perry and Paul Craven.

This must be sent over to the panel by noon today – look forward to your comments as soon as you are available.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Perry, Monica EAO:EX
To: Dale, Alec R ENV:EX; Gawalko, Lyle ENV:EX
Cc: Foote, Sheldon EAO:EX
Subject: RE: EAO Capacity Funding Discussion
Date: Wednesday, June 29, 2016 5:11:00 PM

Thanks for the quick reply! I don't think these are too late. But to include them could you provide some dollars and more clarity on the outcome – i.e. how are these projects creating critical environmental assessment process improvements aimed at increasing operational efficiencies and effectiveness.

I am happy to include them if you can get me a little bit more tomorrow. One reason to include is that Michelle heard from the board that if these are NRS priorities (and major projects should be NRS priorities) then we should collectively be looking at jointly funding. So at the very least, it would be good for us to capture.

Hope that helps. Monica.

From: Dale, Alec R ENV:EX
Sent: Wednesday, June 29, 2016 4:59 PM
To: Perry, Monica EAO:EX; Gawalko, Lyle ENV:EX
Cc: Foote, Sheldon EAO:EX
Subject: RE: EAO Capacity Funding Discussion

Hi Monica, I will send you some thoughts tomorrow on this. I was reminded by a couple folks here of the importance around the data we all rely on and that there is currently a shortage of funding to get data into our systems and improve our knowledge outputs. That obviously benefits everything associated with EAs but I am not sure if that would be eligible for your capacity funding.

The two items that were raised were:

s.13

I totally understand if these are too late or not aligned, but I thought I would pass along anyway.

More tomorrow.

Alec

From: Perry, Monica EAO:EX
Sent: Wednesday, June 29, 2016 4:43 PM
To: Dale, Alec R ENV:EX; Gawalko, Lyle ENV:EX
Cc: Foote, Sheldon EAO:EX
Subject: FW: EAO Capacity Funding Discussion

Hi Alec, I see from your out of office that you are away this week but not sure if you are checking emails as it looks like Lyle isn't acting until next week. I am therefore copying you both. Thanks for putting these items forward in our brainstorming session. I do need to have a sense of how much you think the contract/s would be. It would also be great to hear which are you top priorities, but I think that the first 2 were higher priority for you. I am going to need to make some recommendations to Michelle early next week, so it would be good if I could hear back from someone on your group.

s.13

From: Perry, Monica EAO:EX
Sent: Monday, June 20, 2016 8:13 AM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

<< File: EAO Capacity Funding Draft 2.docx >>

Version 2 Attached. Thanks everyone who quickly provided response! This is still very draft.

Jennifer: could I get more info on the 3 projects you identified?

Brenda: I included items from our discussion, please review and edit. Could you also confirm that FLNRO is seeking staffing funding. As discussed, it seems inconsistent with what Michelle has said to me, but please confirm.

All: any sense of priority? Perhaps even a high, medium or low? Scott, thanks for your thoughts on prioritizing – I have included those. Could others do that as well?

Many thanks everyone, and apologies if I missed something. I will continue to work on this early this week, provide Michelle with this draft version (I think she just needs a sense of where we are going). I would very much appreciate any further edits, comments, etc.

I am also going to get Sheldon to create a table with all of the proposed projects to begin tracking our decisions.

Monica.

From: Perry, Monica EAO:EX
Sent: Thursday, June 16, 2016 6:40 PM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

Thanks again for a very productive discussion today. Attached is a one pager that I will share with Michelle. You will note that I may not have accurately captured the project, so please edit away and provide clarity on what the project is, deliverable etc.. Note: we will need enough info to ensure that the objective is clear.

If everyone could get back to me asap with their comments and top 2-3 projects that you think will provide the greatest efficiencies (i.e. greatest process improvements and or reduced time on staff). I will send around the final version as well. I am proposing to send this to Michelle by noon Friday. Many thanks.

<< File: EAO Capacity Funding.docx >>

From: Perry, Monica EAO:EX
Sent: Thursday, June 16, 2016 8:19 AM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

Hi all, for those of you joining in person, we are in the EAO 1st floor boardroom. Monica.

-----Original Appointment-----
From: Perry, Monica EAO:EX
Sent: Thursday, June 2, 2016 10:33 AM
To: Perry, Monica EAO:EX; Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: EAO Capacity Funding Discussion
When: Thursday, June 16, 2016 9:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
Where: EAO R 2nd Floor Large Boardroom EAO:EX

Conference call info:

s.17

Moderator: Monica

Hi all, this time seemed to work for many of you. We will need to get this underway fairly quickly. For those of you unable to make the meeting. I will follow up with you to ensure that we have good communication with your delegate.

Many thanks, please call if you have any questions.

<< Message: FW: Follow up: EA Capacity Funding discussion with ADMs >>

From: Dale, Alec R ENV:EX
To: Perry, Monica EAO:EX; Gawalko, Lyle ENV:EX
Cc: Foote, Sheldon EAO:EX
Subject: RE: EAO Capacity Funding Discussion
Date: Wednesday, June 29, 2016 4:59:04 PM

Hi Monica, I will send you some thoughts tomorrow on this. I was reminded by a couple folks here of the importance around the data we all rely on and that there is currently a shortage of funding to get data into our systems and improve our knowledge outputs. That obviously benefits everything associated with EAs but I am not sure if that would be eligible for your capacity funding.

The two items that were raised were:

s.13

I totally understand if these are too late or not aligned, but I thought I would pass along anyway.

More tomorrow.

Alec

From: Perry, Monica EAO:EX
Sent: Wednesday, June 29, 2016 4:43 PM
To: Dale, Alec R ENV:EX; Gawalko, Lyle ENV:EX
Cc: Foote, Sheldon EAO:EX
Subject: FW: EAO Capacity Funding Discussion

Hi Alec, I see from your out of office that you are away this week but not sure if you are checking emails as it looks like Lyle isn't acting until next week. I am therefore copying you both. Thanks for putting these items forward in our brainstorming session. I do need to have a sense of how much you think the contract/s would be. It would also be great to hear which are you top priorities, but I think that the first 2 were higher priority for you. I am going to need to make some recommendations to Michelle early next week, so it would be good if I could hear back from someone on your group.

s.13

From: Perry, Monica EAO:EX
Sent: Monday, June 20, 2016 8:13 AM
To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

<< File: EAO Capacity Funding Draft 2.docx >>

Version 2 Attached. Thanks everyone who quickly provided response! This is still very draft.

Jennifer: could I get more info on the 3 projects you identified?

Brenda: I included items from our discussion, please review and edit. Could you also confirm that FLNRO is seeking staffing funding. As discussed, it seems inconsistent with what Michelle has said to me, but please confirm.

All: any sense of priority? Perhaps even a high, medium or low? Scott, thanks for your thoughts on prioritizing – I have included those. Could others do that as well?

Many thanks everyone, and apologies if I missed something. I will continue to work on this early this week, provide Michelle with this draft version (I think she just needs a sense of where we are going). I would very much appreciate any further edits, comments, etc.

I am also going to get Sheldon to create a table with all of the proposed projects to begin tracking our decisions.

Monica.

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To: Foote, Sheldon EAO:EX; McGuire, Jennifer ENV:EX; Hartley, Brenda FLNR:EX; Avila, Amy MEM:EX; Dale, Alec R ENV:EX; Christie, Karen L EAO:EX; Murphy, Shelley EAO:EX; Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Waters, Cory EAO:EX
Subject: RE: EAO Capacity Funding Discussion

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If everyone could get back to me asap with their comments and top 2-3 projects that you

think will provide the greatest efficiencies (i.e. greatest process improvements and or reduced time on staff). I will send around the final version as well. I am proposing to send this to Michelle by noon Friday. Many thanks.

<< File: EAO Capacity Funding.docx >>

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Subject: EAO Capacity Funding Discussion
When: Thursday, June 16, 2016 9:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
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Conference call info:

s.17

Moderator: Monica

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<< Message: FW: Follow up: EA Capacity Funding discussion with ADMs >>

From: Dale, Alec R ENV:EX
To: Perry, Monica EAO:EX
Cc: Gawalko, Lyle ENV:EX; Foote, Sheldon EAO:EX
Subject: Re: EAO Capacity Funding Discussion
Date: Wednesday, June 29, 2016 6:00:24 PM

Will do

Via Mobile

On Jun 29, 2016, at 5:11 PM, Perry, Monica EAO:EX <Monica.Perry@gov.bc.ca> wrote:

> Thanks for the quick reply! I don't think these are too late. But to include them could you provide some dollars and more clarity on the outcome – i.e. how are these projects creating critical environmental assessment process improvements aimed at increasing operational efficiencies and effectiveness.
>
> I am happy to include them if you can get me a little bit more tomorrow. One reason to include is that Michelle heard from the board that if these are NRS priorities (and major projects should be NRS priorities) then we should collectively be looking at jointly funding. So at the very least, it would be good for us to capture.
>
> Hope that helps. Monica.
>
> ---
>
> **From:** Dale, Alec R ENV:EX
> **Sent:** Wednesday, June 29, 2016 4:59 PM
> **To:** Perry, Monica EAO:EX; Gawalko, Lyle ENV:EX
> **Cc:** Foote, Sheldon EAO:EX
> **Subject:** RE: EAO Capacity Funding Discussion
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Subject: RE: EAO Capacity Funding Discussion

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EAO:EX
Subject: EAO Capacity Funding Discussion
When: Thursday, June 16, 2016 9:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).
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Conference call info:

s.17

Moderator: Monica

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Many thanks, please call if you have any questions.

<< Message: FW: Follow up: EA Capacity Funding discussion with ADMs >>

From: Perry, Monica EAO:EX
To: Haines, Kate EAO:EX
Subject: Re: EAO Capacity Funding Draft 2
Date: Tuesday, June 28, 2016 1:55:35 PM

Yes ok to do so at high level. Brenda may pipe in. But we haven't made any decisions yet. Industry may be concerned about us not funding staff but message is that agencies need to fund themselves. We need to be careful about the messaging on reduced staffing which is not EAOs view.

Sent from my iPhone

On Jun 28, 2016, at 1:40 PM, Haines, Kate EAO:EX <Kate.Haines@gov.bc.ca> wrote:

> Should I speak to the messages that Michelle gave at nrs Admn on capacity funding? Eg focus on high impact legacy projects? Just want to make sure it's ok to share outside gvt
>
> Begin forwarded message:
>
> > **From:** "Fenton, Chrystal EAO:EX" <Chrystal.Fenton@gov.bc.ca>
> > **Date:** June 27, 2016 at 11:15:55 AM PDT
> > **To:** EAO Executive Project Directors <EAOPODLE@Victoria1.gov.bc.ca>, EAO Managers <EAOMGR@Victoria1.gov.bc.ca>, "Bates, Julia EAO:EX" <Julia.Bates@gov.bc.ca>
> > **Subject: EAO Capacity Funding Draft 2**
> >
> > Good morning, as discussed at OMT please find attached the EAO Capacity Funding document for your information and/or comment (to Monica).
> >
> > Thanks
> > Chrystal
>
> <EAO Capacity Funding Draft 2.docx>

From: Perry, Monica EAO:EX
To: Scraba, Erin H EAO:EX
Cc: Craven, Paul EAO:EX
Subject: RE: EAO Capacity Funding Draft 2
Date: Monday, June 27, 2016 11:57:00 AM

Yes will do. A good heads up Erin. FYI: I did ask at one point for the specifics around the TB direction (I asked to see the minute) on the funding and did not get much other than it was part of our base. If you could share the minute (or the specific wording around it) that would be great as I agree, that we could get asked especially if there is specific wording. Many thanks.

From: Scraba, Erin H EAO:EX
Sent: Monday, June 27, 2016 11:46 AM
To: Perry, Monica EAO:EX
Cc: Craven, Paul EAO:EX
Subject: FW: EAO Capacity Funding Draft 2

Further to my comment around the conditions attached to our budget lift in 2014, please keep Cheryl in the loop around decisions to change the capacity funding structure and allocation. We may be asked to report back to Treasury Board at some point.

e

From: Fenton, Chrystal EAO:EX
Sent: Monday, June 27, 2016 11:16 AM
To: EAO Executive Project Directors; EAO Managers; Bates, Julia EAO:EX
Subject: EAO Capacity Funding Draft 2

Good morning, as discussed at OMT please find attached the EAO Capacity Funding document for your information and/or comment (to Monica).

Thanks
Chrystal

From: Haines, Kate EAO:EX
To: Perry, Monica EAO:EX
Subject: Re: EAO Capacity Funding Draft 2
Date: Tuesday, June 28, 2016 2:04:06 PM

Ok will not raise.

On Jun 28, 2016, at 1:55 PM, Perry, Monica EAO:EX <Monica.Perry@gov.bc.ca> wrote:

> Yes ok to do so at high level. Brenda may pipe in. But we haven't made any decisions yet. Industry may be concerned about us not funding staff but message is that agencies need to fund themselves. We need to be careful about the messaging on reduced staffing which is not EAOs view.
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> Sent from my iPhone
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> On Jun 28, 2016, at 1:40 PM, Haines, Kate EAO:EX <Kate.Haines@gov.bc.ca> wrote:
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> >
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> > **Date:** June 27, 2016 at 11:15:55 AM PDT
> > **To:** EAO Executive Project Directors <EAOPODLE@Victoria1.gov.bc.ca>, EAO Managers <EAOMGR@Victoria1.gov.bc.ca>, "Bates, Julia EAO:EX" <Julia.Bates@gov.bc.ca>
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> > Thanks
> > Chrystal
> >
> > <EAO Capacity Funding Draft 2.docx>

From: Mueller, Brent CSCD:EX
To: Messenger, Meggin A CSCD:EX; Perry, Monica EAO:EX; Bailey, Scott EAO:EX
Cc: Marotz, Nicola CSCD:EX; Bedford, Brian CSCD:EX; Edwards, Liam CSCD:EX; Rothe, Karen J CSCD:EX
Subject: RE: Follow up to our meeting
Date: Tuesday, June 28, 2016 11:05:16 AM
Attachments: image001.png

Hi everyone – I will await the setting up of a meeting as referred to in Meggin's email and will ask Dannie Carsen to join me.

Cheers ~ Brent

Brent Mueller, MA
Director, Governance Relations, Governance and Structure Branch
Ministry of Community, Sport and Cultural Development
Province of British Columbia
(250) 387-2540

From: Messenger, Meggin A CSCD:EX
Sent: Wednesday, June 22, 2016 12:52 PM
To: Perry, Monica EAO:EX; Bailey, Scott EAO:EX
Cc: Marotz, Nicola CSCD:EX; Mueller, Brent CSCD:EX; Bedford, Brian CSCD:EX; Edwards, Liam CSCD:EX; Rothe, Karen J CSCD:EX
Subject: Re: Follow up to our meeting

Hi Monica

I have confirmed with Brent that he will be your primary contact for CSCD. Karen will represent IRPB (land use)

M

Meggin Messenger
Intergovernmental Relations and Planning Branch
BC Ministry of Community, Sport and Cultural Development

From: Perry, Monica EAO:EX
Sent: Wednesday, June 22, 2016 12:09 PM
To: Messenger, Meggin A CSCD:EX; Bailey, Scott EAO:EX
Cc: Marotz, Nicola CSCD:EX; Mueller, Brent CSCD:EX; Bedford, Brian CSCD:EX; Edwards, Liam CSCD:EX; Rothe, Karen J CSCD:EX
Subject: RE: Follow up to our meeting

Thank you Megan. We will follow up with our Project Leads and pull together the key project characteristics that would make a project a candidate for a CSCD triage approach. I will work with Karen on setting that up over the next few weeks.

Monica Perry
Executive Project Director, Power and Community Infrastructure
Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208
cid:image001.png@01D10288.102B8370

From: Messenger, Meggin A CSCD:EX
Sent: Wednesday, June 22, 2016 11:14 AM
To: Bailey, Scott EAO:EX; Perry, Monica EAO:EX
Cc: Marotz, Nicola CSCD:EX; Mueller, Brent CSCD:EX; Bedford, Brian CSCD:EX; Edwards, Liam CSCD:EX; Rothe, Karen J CSCD:EX
Subject: Follow up to our meeting

Hello Scott and Monica,

Thank you for taking the time to meet yesterday and thanks also for reaching out to Brian Bedford.

I have had the chance to chat briefly about the topics you raised with Nicola Marotz, the ED responsible for EA within local government department.

Nicola confirms that our Ministry has two main roles related to EA. The first is with regards to our Minister as a designated minister on specific projects. The second is a triage type role to assist in ensuring that local governments are participating directly to represent local interests related to EA projects. These functions are managed by Brent Mueller in Nicola Marotz's shop.

As discussed at our meeting yesterday, there may be a need, from time to time to assign a CSCD representative to play a different role on some projects. A recent example would our participation on GAS.

I understand that you will be setting up a meeting to run through some projects that may be candidates for this type of exceptional approach. If, when you set the meeting up, you are able to provide a description of the key project characteristics that makes each of these projects a candidate (e.g. water project component or land use questions), we can ensure that the correct CSCD staff attend.

s.22 , so I am cc'ing Karen Rothe who will be acting for me.

Thanks
Meggin

Meggin Messenger,
Executive Director
Intergovernmental Relations and Planning Branch
& North West Community Readiness

Ministry of Community, Sport and Cultural Development
Phone: 250-387-4045
mailto:meggin.messenger@gov.bc.ca

From:	Fenton, Chrystal EAO:EX
To:	Simpson, Vickie L EAO:EX; Batty, Adam EAO:EX; Black, Brenda EAO:EX; Carlson, Justin EAO:EX; Cheema, Kashmiro K EAO:EX; Cousins, Autumn EAO:EX; Del Rave, Nicole EAO:EX; Haines, Mark R EAO:EX; Heinz, Rose EAO:EX; Lawrence, Cheryl A EAO:EX; McDonald, Geoff L EAO:EX; McLean, Alex D EAO:EX; McNeil, Sean EAO:EX; Milne, Andrew EAO:EX; Parks, Chris EAO:EX; Pizarro, Kirsten EAO:EX; Rathbone, Mary EAO:EX; Rennert-May, Leya EAO:EX; Scraba, Erin H EAO:EX; Simpson, Vickie L EAO:EX; Stockman, Fern P EAO:EX; Tombs, Joanna EAO:EX; Vinette, Nicole EAO:EX; Walton, Lindsay EAO:EX; Weaver, Colleen EAO:EX; Woods, Helen EAO:EX; EAO Staff - 2nd Floor 836 Yates; EAO Staff - 4th Floor 836 Yates
Subject:	RE: Invitation to s.22
Date:	Tuesday, June 28, 2016 9:17:32 AM
Attachments:	image001.jpg image002.jpg

Good morning,

Just a reminder that s.22 is tomorrow afternoon. Please feel free to bring a snack/appies/baked good to share if you like. There will be tea/coffee and cake as well.

Hope to see you all there!

Thank you
Chrystal

From: Simpson, Vickie L EAO:EX
Sent: Tuesday, June 7, 2016 10:59 AM
To: EAO Staff - All
Subject: s.22

Invitation to s.22

s.22

Date: June 29th

Time: 2:30 to 3:30pm

Location: 1st Floor Large Boardroom

Please feel free to bring in snacks/appies/squares for this event.
A cake will be provided.

Thanks and hope to see you all there.

From: Hamblin, Gerry EAO:EX
To: Perry, Monica EAO:EX
Subject: RE: Lazo Road Shoreline in Comox BC
Date: Wednesday, June 29, 2016 12:10:10 PM

She mentions the length of the shoreline modification but there's an area trigger as well:

(i) ≥ 1 000 m of
linear
shoreline, or

(ii) ≥ 2 hectares of foreshore or submerged land, or a combination of foreshore and submerged land, below the natural boundary of a stream, marine coastline or estuary.

Just wondering if it might be worthwhile contacting the Town of Comox to get them to provide us with their opinion on whether they trigger or not?

From: Perry, Monica EAO:EX
Sent: Wednesday, June 29, 2016 9:42 AM
To: Hamblin, Gerry EAO:EX
Subject: FW: Lazo Road Shoreline in Comox BC

FYI only, I believe you pointed this project out to me a few months ago.

I spoke with her yesterday, and I will respond this week. But wondering if you have any more context.

From: s.22
Sent: Tuesday, June 28, 2016 10:20 PM
To: Perry, Monica EAO:EX
Subject: Lazo Road Shoreline in Comox BC

Monica,
I had talked to you earlier today and thank you for giving me that time. I do feel that the project I am working on is Urgent, but I suppose everyone feels that way. The project has voluntarily stopped work because the Town of Comox neglected to get the appropriate permit from FLNRO, which permit application is in process as we speak.....but the reprieve is a temporary one. As of last week there was one big piece of equipment to do the work. Today another one was moved in and when the project commences again the beach will be destroyed at twice the pace.

Because there was no permit in place the Town of Comox was trespassing on the Foreshore and disrupting the subject lands.

I did check the EAO Regulation and the length of the affected shoreline, to give an assessment trigger, must be greater than 1000 metres. The portion of foreshore included in the Lazo Road proposal is quoted as being 640 metres so there will be no 'trigger'.

Notwithstanding the length I would propose that the project be selected for an Environmental Assessment. Firstly, the area was used as a midden for many generations by the aboriginals

and there is ample evidence to indicate same. I do not know that enough consideration was given to First Nation rights. Also, the project may compromise the biological capacity of the foreshore. As the beach presently exists it is a part of the feeding grounds for the many varieties of migrating birds that winter here.

Thirdly, Comox Valley has been disrupting natural sediment travel on the shore for approximately three decades and the armouring that is proposed in the subject project continues the disruption which exacerbates the problem even more. The result is Goose Spit, in the Town of Comox, is drying up. It was once a class I beach (sand) and is now a beach with lots of exposed cobble with remnants of sand pockets.

I am hoping for some consideration by you and your Department on this project.
Thank you again for your time with the above.

Yours truly,
Judy M. Morrison
s.22

From: Perry, Monica EAO:EX
To: Hamblin, Gerry EAO:EX
Subject: RE: Lazo Road Shoreline in Comox BC
Date: Wednesday, June 29, 2016 12:12:00 PM

Do you want to do that given the future potential work with Comox? I am not going to spend too much time on this. We could contact FLNRO as well, but I asked [s.22] to do that herself.

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Sent: Wednesday, June 29, 2016 12:10 PM
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Subject: RE: Lazo Road Shoreline in Comox BC

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I did check the EAO Regulation and the length of the affected shoreline, to give an assessment trigger, must be greater than 1000 metres. The portion of foreshore included in the Lazo Road proposal is quoted as being 640 metres so there will be no 'trigger'.

Notwithstanding the length I would propose that the project be selected for an Environmental Assessment. Firstly, the area was used as a midden for many generations by the aboriginals and there is ample evidence to indicate same. I do not know that enough consideration was given to First Nation rights. Also, the project may compromise the biological capacity of the foreshore. As the beach presently exists it is a part of the feeding grounds for the many varieties of migrating birds that winter here.

Thirdly, Comox Valley has been disrupting natural sediment travel on the shore for approximately three decades and the armouring that is proposed in the subject project continues the disruption which exacerbates the problem even more. The result is Goose Spit, in the Town of Comox, is drying up. It was once a class I beach (sand) and is now a beach with lots of exposed cobble with remnants of sand pockets.

I am hoping for some consideration by you and your Department on this project.
Thank you again for your time with the above.

Yours truly.
s.22

From: Gow, Lisa A TRAN:EX
To: Perry, Monica EAO:EX
Cc: Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject: Re: Meeting: RBT2 FRT Panel Orientation Session Prep
Date: Monday, June 27, 2016 1:04:49 PM

Thanks Monica - very helpful! Looks like provincial agencies a wee bit more succinct

Sent from my iPhone

> On Jun 27, 2016, at 12:38 PM, Perry, Monica EAO:EX <Monica.Perry@gov.bc.ca> wrote:
>
> Lisa, FYI only. I think you would be most interested out of provincial presenters in the federal presentations.
>
> From: Haines, Kate EAO:EX
> Sent: Monday, June 27, 2016 12:34 PM
> To: Perry, Monica EAO:EX
> Subject: FW: Meeting: RBT2 FRT Panel Orientation Session Prep
>
>
>
> From: Saely,Analise [CEAA] [mailto:Analise.Saely@ceaa-acee.gc.ca]
> Sent: Monday, June 27, 2016 12:27 PM
> To: Cindy Hubbard; Clint Carl; Crampton,Stefan [CEAA]; RobertsBankT2 [PYR]; Eleanor Setton; Eusebio, Paulo; AANDC; Funk, Lindsay: DFO; Galbrand, Catherine: TC; Gilbert, Nadia: DFO; Gill,Harp [PYR]; Aitchison, Gina: TC; graham.irvine@hc-sc.gc.ca<mailto:graham.irvine@hc-sc.gc.ca>; Heap, David: DFO; Heather Cherry; Beavis, Katherine: TC; Kathy McPherson; Leung,David [PYR]; Lucille Lukey; Maisonneuve,Elyse [CEAA]; McLean,Robyn [CEAA]; meaghan.ferguson@tc.gc.ca<mailto:meaghan.ferguson@tc.gc.ca>; Mercer, Janet: PCA; Mullins,Garth [PYR]; Ogston, Leigh: AANDC; O'Keefe, Sarah: TC; Rifkin,June Yoo [PYR]; Rosset, Daniel: PCA; kirsten.sellers@tc.gc.ca<mailto:kirsten.sellers@tc.gc.ca>; Simpson, Jennifer: DFO; Stapleton, Peter: DFO; Surch, Matthew: DFO; Richardson, Tessa: DFO; Whiteside, Joseph: AANDC; Woodward, John: CTA; Gluck, Stephen: DFAIT; Haines, Kate EAO:EX; Grace, David H EAO:EX; Tsang, Jason: CTA
> Cc: Rifkin, June Yoo (EC); Leung, David (EC); Gill, Harp (EC); Irvine2, Graham (HC/SC); Evans, Clay: DFO; Jason Tsang; Leigh Ogston; Beavis, Katherine; Evans, Clay; Simpson, Jennifer
> Subject: RE: Meeting: RBT2 FRT Panel Orientation Session Prep
>
>
> Hi everyone, as promised here is the collection of presentations from the federal departments. Please take a quick look through and we can discuss any possible cross cutting issues on our call in half an hour. Thanks.
>
> <<RBT2 GoC presentations.pdf>>
>
> Analise Saely
> 604-666-9169
>
> -----Original Appointment-----
> From: Saely,Analise [CEAA]
> Sent: June 23, 2016 9:01 AM
> To: Saely,Analise [CEAA]; 'Cindy Hubbard'; 'Clint Carl'; Crampton,Stefan [CEAA]; RobertsBankT2 [PYR]; 'Eleanor Setton'; Eusebio, Paulo: AANDC; Funk, Lindsay: DFO; Galbrand, Catherine: TC; Gilbert, Nadia: DFO; Gill,Harp [PYR]; Aitchison, Gina: TC; 'graham.irvine@hc-sc.gc.ca'; Heap, David: DFO; 'Heather Cherry'; Beavis, Katherine: TC; 'Kathy McPherson'; Leung,David [PYR]; 'Lucille Lukey'; Maisonneuve,Elyse [CEAA]; McLean,Robyn [CEAA]; 'meaghan.ferguson@tc.gc.ca'; Mercer, Janet: PCA; Mullins,Garth [PYR]; Ogston, Leigh: AANDC; O'Keefe, Sarah: TC; Rifkin,June Yoo [PYR]; Rosset, Daniel: PCA; Saely,Analise [CEAA]; 'Sellers, Kirsten (kirsten.sellers@tc.gc.ca<mailto:kirsten.sellers@tc.gc.ca>)'; Simpson, Jennifer: DFO; Stapleton, Peter:

DFO; Surch, Matthew: DFO; Richardson, Tessa: DFO; Whiteside, Joseph: AANDC; Woodward, John: CTA; Gluck, Stephen: DFAIT; 'Haines, Kate EAO:EX'; 'Grace, David H EAO:EX'; Tsang, Jason: CTA
> Cc: 'Rifkin, June Yoo (EC)'; 'Leung, David (EC)'; 'Gill, Harp (EC)'; 'Irvine2, Graham (HC/SC)'; Evans, Clay: DFO; Jason Tsang; Leigh Ogston; Beavis, Katherine; Evans, Clay; Simpson, Jennifer
> Subject: Meeting: RBT2 FRT Panel Orientation Session Prep
> When: June 27, 2016 1:00 PM-2:00 PM (UTC-08:00) Pacific Time (US & Canada).
> Where: CEAA Office 401-701 West Georgia (Canada Room) / Teleconference Dial-in:1 877-413-4790 code: 7058843
>
> Hi everyone, this is a chance for the federal government department's to touch base prior to presenting to the panel the next day. As Robyn noted the presentations are due in to the panel "no later than Monday June 27, 2016 at 12:00 pm PST. Presentations should be in powerpoint format. All submissions are to be sent to the Review Panel at Panel.RBT2@ceaa.gc.ca<mailto:Panel.RBT2@ceaa.gc.ca>."
>
> Please cc me on your power point submissions to the panel and I will PDF them all into one document and circulate them back to all of you prior this meeting so we can have a chance to take a look through each department's submissions and have an opportunity to ask each other any questions of clarification on cross cutting issues. Thank you.
>
> << Message: RBT2 Orientation Session Update >>
>
> - Remote presentation logistics (Robyn)
>
> - Media
> <RBT2 GoC presentations.pdf>

From: Haines, Kate EAO:EX
To: Lambert, Tim HLTH:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Re: Ministry of Health = Presentation Roberts Bank
Date: Tuesday, June 28, 2016 12:08:18 PM

Hi Tim,

Just wanted to give you a heads up that the panel was asking the Health Canada representative about their expertise with respect to mental health. Health Canada indicated that mental health is not part of their expertise that they provide advice on, and suggested that the province may, either through the Ministry of Health or the health authorities (Fraser or First Nations)

You should expect to have a similar question this afternoon.

On Jun 27, 2016, at 9:59 AM, Lambert, Tim HLTH:EX <Tim.Lambert@gov.bc.ca> wrote:

> Hi Kate
> I submitted the MOH presentation earlier. Didn't send to you sorry.
>
> Tim
>
> **From:** Lambert, Tim HLTH:EX
> **Sent:** Monday, June 27, 2016 9:18 AM
> **To:** 'Panel.RBT2@ceaa.gc.ca'
> **Cc:** Paton, Arlene HLTH:EX; Janke, Brenda G HLTH:EX; Carr, Michelle EAO:EX; Dutra, Corey G HLTH:EX; Benson, Stacey HLTH:EX
> **Subject:** Ministry of Health = Presentation Roberts Bank
>
> Hello Panel
> Please find attached the Ministry of Health, BC, power point presentation. Note the Ministry of Health will not be present in person. MOH is available by phone on the afternoon of June 28 only.
>
> Thank you
> Timothy Lambert PhD
> Executive Director
> Health Protection
> Ministry of Health
>
> O: 250-952-1987
> C: 250-217-8260
>
> <MOH Powerpoint Roberts Bank Panel June 28 2016.pptx>

From: Batty, Adam EAO:EX
To: Yacyshen, Tom D FLNR:EX
Cc: Haines, Kate EAO:EX; Perry, Monica EAO:EX
Subject: RE: Narrows Inlet Amendment #2 Review
Date: Wednesday, June 29, 2016 1:32:36 PM
Attachments: image001.png

Hi Tom,

Based on our first conversation in the call with May and Monica, I have not included James and Julia in the email below. I believe you requested that we work with you and you can distribute information as necessary.

Once I hear back from the rest of the group, we will schedule a call to discuss comments from everyone.

Thanks,
Adam

From: Batty, Adam EAO:EX
Sent: Wednesday, June 29, 2016 1:30 PM
To: Yacyshen, Tom D FLNR:EX; Babakaiff, Scott C FLNR:EX; Moorhouse, Tara TRAN:EX; Malt, Joshua FLNR:EX; 'jpaul@secheltnation.net'; 'Courtney Smith (csmith@secheltnation.net) (csmith@secheltnation.net)'; XT:Klassen, Herb Fisheries and Oceans Canada EAO:IN; 'david.rafael@scrd.ca'
Cc: Haines, Kate EAO:EX; Perry, Monica EAO:EX
Subject: Narrows Inlet Amendment #2 Review

Hello,

EAO has received a second amendment request (Cover letter, Application) from BluEarth Renewables in relation to the Upper and Lower Ramona Creek components of the Narrows Inlet Hydro Project. The Certificate Holder is seeking a number of changes, including:

- Project design changes at Upper Ramona Creek
  a. lake tap intake;
  b. water conveyance system;
  c. flow storage capacity and drawdown;
  d. downstream flow release; and
  e. instream flow requirement (IFR) release system.
- Project design changes at Lower Ramona Creek
  a. Lower Ramona intake type;
  b. R1 (Marten Creek) intake location; and
  c. R1 (Marten Creek) maximum diversion rate.
- Revision to the Project boundary to encompass access roads to Chickwat Creek and entire transmission line corridor; and
- IFR schedule for Chickwat Creek facility.

As a previous participant in the review of the first Narrows Inlet Amendment, we wanted to confirm if you will be able to participate in this review. Please respond by **Tuesday July 5th** if you are able to participate and what level of participation you are able to contribute (i.e., participate in the review, or stay involved by Cc on communications). After I receive confirmation, we will begin the process of setting up a conference call to discuss any issues identified by the review team. If you are not the correct contact, please identify who EAO should be contacting at your organization with respect to this amendment.

Next Step: EAO will be asking the review team to conduct a review of the Holder's Amendment Package and provide feedback as part of the amendment process. We will provide more information about this next step soon.

Thank you,
Adam

Adam Batty
Project Assessment Officer
Tel: (250)387-2502



www.eao.gov.bc.ca

From: Perry, Monica EAO:EX
To: Foote, Sheldon EAO:EX
Subject: RE: PMV docs with comments
Date: Wednesday, June 29, 2016 6:46:00 PM
Attachments: image001.jpg

Sheldon, I did some cleaning up. In each of the Schedule B's. there is a table of acronyms that I am hoping you can fix. I will do a bit more editing tomorrow in accepting some changes and then send off to autumn. Thanks.

From: Foote, Sheldon EAO:EX
Sent: Friday, June 24, 2016 3:42 PM
To: Perry, Monica EAO:EX
Subject: PMV docs with comments

Hi Monica,

I have had a chance to save and review the documents for the 3 PMV exemptions. I fixed all the formatting issues I could, and accepted the changes that reference "for purposes of administrative coordination". I was hesitant to accept too many things in the Schedule B's as the proponent made a LOT of comments, almost all of which I feel like are over my head a bit, as I am not sure how much they are allowed to alter and add.

Locations in the I drive below:

Orders

I:\EAO\EAO_SHARED\000Projects\z_WAIVED OUT - NO ASSESSMENT REQUIRED\Port Metro Vancouver - Point Grey Tidal Marsh\Point Grey Tidal Marsh\04 LEGAL\Orders\2. Point Grey Section 10(1)(b) Order_May 9_2016-VFPA COMMENTS (2).docx

I:\EAO\EAO_SHARED\000Projects\z_WAIVED OUT - NO ASSESSMENT REQUIRED\Port Metro Vancouver - South Arm Jetty Tidal Marsh\South Arm Jetty Tidal Marsh\04 LEGAL\Orders\2. South Arm Jetty Section 10(1)(b) Order_May 9_2016-VFPA COMMENTS.docx

Schedule A

I:\EAO\EAO_SHARED\000Projects\z_WAIVED OUT - NO ASSESSMENT REQUIRED\Port Metro Vancouver - Point Grey Tidal Marsh\Point Grey Tidal Marsh\08 Exemption\Final Exemption Pkg\2. Schedule A Point Grey Tidal Marsh - Certified PD May 11 2016-VFPA COMMENTS.docx

I:\EAO\EAO_SHARED\000Projects\z_WAIVED OUT - NO ASSESSMENT REQUIRED\Port Metro Vancouver - South Arm Jetty Tidal Marsh\South Arm Jetty Tidal Marsh\08 Exemption\Final Exemption Pkg\2. Schedule A South Arm Jetty Certified PD May 11 2016-VFPA COMMENTS.docx

I:\EAO\EAO_SHARED\000Projects\z_WAIVED OUT - NO ASSESSMENT REQUIRED\Port Metro

Vancouver - Tsawwassen Eelgrass\Tsawwassen Eelgrass\08 Exemption\Final Exemption Pkg\2. Schedule A Tsawwassen Eelgrass - Certified PD May 11 2016_MD-VFPA COMMENTS.docx

Schedule B

I:\EAO\EAO_SHARED\000Projects\z_WAIVED OUT - NO ASSESSMENT REQUIRED\Port Metro Vancouver - Point Grey Tidal Marsh\Point Grey Tidal Marsh\08 Exemption\Final Exemption Pkg\2. Schedule B TOC Point Grey May 13 2016-VFPA COMMENTS.docx

I:\EAO\EAO_SHARED\000Projects\z_WAIVED OUT - NO ASSESSMENT REQUIRED\Port Metro Vancouver - South Arm Jetty Tidal Marsh\South Arm Jetty Tidal Marsh\08 Exemption\Final Exemption Pkg\2. Schedule B TOC South Arm Jetty May 13 2016-VFPA COMMENTS.docx

I:\EAO\EAO_SHARED\000Projects\z_WAIVED OUT - NO ASSESSMENT REQUIRED\Port Metro Vancouver - Tsawwassen Eelgrass\Tsawwassen Eelgrass\08 Exemption\Final Exemption Pkg\2. Schedule B TOC Tsawwassen Eelgrass_May 19 2016-VFPA COMMENTS.docx

Sheldon Foote | Project Assistant
Environmental Assessment Office
Phone: (250) 387-9409
Email: sheldon.foote@gov.bc.ca

email_signature

From: Perry, Monica EAO:EX
To: Scraba, Erin H EAO:EX
Subject: RE: pour vous
Date: Wednesday, June 29, 2016 4:32:00 PM
Attachments: image001.jpg

s.12

From: Scraba, Erin H EAO:EX
Sent: Wednesday, June 29, 2016 4:29 PM
To: Perry, Monica EAO:EX
Subject: RE: pour vous

s.12

From: Perry, Monica EAO:EX
Sent: Wednesday, June 29, 2016 4:28 PM
To: Scraba, Erin H EAO:EX
Subject: RE: pour vous

s.12

From: Scraba, Erin H EAO:EX
Sent: Wednesday, June 29, 2016 4:22 PM
To: Perry, Monica EAO:EX
Subject: pour vous

s.12

Erin Scraba
Manager, Legislation, Policy and Project Assessment
250-387-7412
Erin.Scraba@gov.bc.ca
email_signature



From: Perry, Monica EAO:EX
To: Scraba, Erin H EAO:EX
Subject: RE: pour vous
Date: Wednesday, June 29, 2016 4:27:00 PM
Attachments: image001.jpg

s.12

From: Scraba, Erin H EAO:EX
Sent: Wednesday, June 29, 2016 4:22 PM
To: Perry, Monica EAO:EX
Subject: pour vous

s.12

Erin Scraba
Manager, Legislation, Policy and Project Assessment
250-387-7412
Erin.Scraba@gov.bc.ca
email_signature



From: Perry, Monica EAO:EX
To: Scraba, Erin H EAO:EX
Subject: RE: pour vous
Date: Wednesday, June 29, 2016 4:40:00 PM
Attachments: image001.jpg

Right. Thanks again!! All really great context.

From: Scraba, Erin H EAO:EX
Sent: Wednesday, June 29, 2016 4:33 PM
To: Perry, Monica EAO:EX
Subject: RE: pour vous

s.12

From: Perry, Monica EAO:EX
Sent: Wednesday, June 29, 2016 4:32 PM
To: Scraba, Erin H EAO:EX
Subject: RE: pour vous

s.12

From: Scraba, Erin H EAO:EX
Sent: Wednesday, June 29, 2016 4:29 PM
To: Perry, Monica EAO:EX
Subject: RE: pour vous

s.12

From: Perry, Monica EAO:EX
Sent: Wednesday, June 29, 2016 4:28 PM
To: Scraba, Erin H EAO:EX
Subject: RE: pour vous

s.12

From: Scraba, Erin H EAO:EX
Sent: Wednesday, June 29, 2016 4:22 PM
To: Perry, Monica EAO:EX
Subject: pour vous

s.12

Erin Scraba
Manager, Legislation, Policy and Project Assessment
250-387-7412
Erin.Scraba@gov.bc.ca
email_signature



From:	Perry, Monica EAO:EX
To:	Evans, Megan J EAO:EX; Hamblin, Gerry EAO:EX; Hardie, Karie EAO:EX; Darling, May Y EAO:EX; Dunae, Vanessa EAO:EX; Haines, Kate EAO:EX; Batty, Adam EAO:EX; Carter, Rumon EAO:EX
Cc:	Foote, Sheldon EAO:EX; Denis, Alex EAO:EX
Subject:	RE: Power and Community Infrastructure Team Meetings
Date:	Wednesday, June 29, 2016 1:40:00 PM

Hi all, can you please delete this out of your calendars. I will get Sheldon to send a new series. Todays mtg overlaps with training etc. and we had a meeting last week so lets cancel todays.

Sorry for any inconvenience

Monica

-----Original Appointment-----
From: Evans, Megan J EAO:EX
Sent: Wednesday, March 9, 2016 8:35 AM
To: Evans, Megan J EAO:EX; Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Hardie, Karie EAO:EX; Darling, May Y EAO:EX; Dunae, Vanessa EAO:EX; Haines, Kate EAO:EX; Batty, Adam EAO:EX; Carter, Rumon EAO:EX
Cc: Foote, Sheldon EAO:EX; Denis, Alex EAO:EX
Subject: Power and Community Infrastructure Team Meetings
When: Wednesday, June 29, 2016 2:00 PM-3:00 PM (UTC-08:00) Pacific Time (US & Canada).
Where: 2nd floor Boardroom

New meeting invite

From: Foote, Sheldon EAO:EX
To: Perry, Monica EAO:EX
Subject: RE: Power and Community Infrastructure Team Meetings
Date: Wednesday, June 29, 2016 3:37:35 PM

It looks like I don't have the permissions to make appointments on your behalf. You should be able to give me permission to create items in the "calendar permissions" tab in outlook.

From: Perry, Monica EAO:EX
Sent: Wednesday, June 29, 2016 1:45 PM
To: Evans, Megan J EAO:EX; Hamblin, Gerry EAO:EX; Hardie, Karie EAO:EX; Darling, May Y EAO:EX; Dunae, Vanessa EAO:EX; Haines, Kate EAO:EX; Batty, Adam EAO:EX; Carter, Rumon EAO:EX
Cc: Foote, Sheldon EAO:EX; Denis, Alex EAO:EX
Subject: RE: Power and Community Infrastructure Team Meetings

Hi all, can you please delete this out of your calendars. I will get Sheldon to send a new series. Todays mtg overlaps with training etc. and we had a meeting last week so lets cancel todays.

Sorry for any inconvenience

Monica

-----Original Appointment-----
From: Evans, Megan J EAO:EX
Sent: Wednesday, March 9, 2016 8:35 AM
To: Evans, Megan J EAO:EX; Perry, Monica EAO:EX; Hamblin, Gerry EAO:EX; Hardie, Karie EAO:EX; Darling, May Y EAO:EX; Dunae, Vanessa EAO:EX; Haines, Kate EAO:EX; Batty, Adam EAO:EX; Carter, Rumon EAO:EX
Cc: Foote, Sheldon EAO:EX; Denis, Alex EAO:EX
Subject: Power and Community Infrastructure Team Meetings
When: Wednesday, June 29, 2016 2:00 PM-3:00 PM (UTC-08:00) Pacific Time (US & Canada).
Where: 2nd floor Boardroom

New meeting invite

From:	Haines, Kate EAO:EX
To:	Christie, Karen L EAO:EX; Pratt, Terry EAO:EX
Cc:	Foote, Sheldon EAO:EX; Perry, Monica EAO:EX
Subject:	RE: QUESTION: Termination and Withdrawal
Date:	Monday, June 27, 2016 1:55:50 PM
Attachments:	Fee implications of terminated and withdrawn projects.msg image001.jpg image002.jpg

There was a TOR for the south meager project, but I did not rescind it, I simply terminated the project.

I have attached the work we have been doing with Paul's team with respect to the policy for projects who do wish to "reactivate" – erin gave some comments on fees that may be relevant.

From: Christie, Karen L EAO:EX
Sent: Monday, June 27, 2016 1:51 PM
To: Pratt, Terry EAO:EX
Cc: Haines, Kate EAO:EX; Foote, Sheldon EAO:EX
Subject: RE: QUESTION: Termination and Withdrawal

Hi Terry,

Re: Terminations and Withdrawals

1. "Final letter": I chatted with Monica, and she believes that:
    a. we send each company a final letter advising that the project has been withdrawn; and
    b. there is a template letter that you can use.

   Sheldon should be able to advise.

2. Process for rescinding an old TOR:
    a. a section 13 order needs to be issued;
    b. followed by a letter to the company.

   Check with Kate to see if as part of terminations and withdrawals she rescinded a TOR & sent a letter afterwards that you can use as templates. If not, we will need to work with Paul Craven on the wording of the letter as there will be fee implications.

3. An additional question that Sheldon or Kate may be able to answer is who at EAO changes the status of an EA to "withdrawn" on e-PIC? Is it Susan or Steven, or someone else?

Karen
Karen Christie
Executive Project Director

1-836 Yates St., Victoria, B.C., V8W 1L8
Phone: (250) 387-9675 | Fax : 250-356-6448
Karen.L.Christie@gov.bc.ca | www.eao.gov.bc.ca

From: Pratt, Terry EAO:EX
Sent: June 24, 2016 12:56 PM
To: Christie, Karen L EAO:EX
Cc: Hall, Susan M EAO:EX
Subject: QUESTION: Termination and Withdrawal

Hi Karen

A couple of questions:

- On May 19th we sent letters to those proponents we hadn't gotten responses from to your Feb 26th letter. We gave them until June 18th or we would consider the project withdrawn from the EA. **For those proponents we haven't heard from, do I need to send them another letter advising them that the project is officially withdrawn?** Or is the letter sufficient? Excerpt below:

  "The Environmental Assessment Office (EAO) considers the fact that you have not replied as indication that you do not wish to proceed with the EA for Bear Project and wish to withdraw from the EA process. Accordingly, please be advised that EAO will consider Bear Project withdrawn from the EA as of June 18, 2016 if we do not hear from you.
  EAO will post this letter on its electronic Project Information Centre website at www.eao.gov.bc.ca. If you have any questions or require further information, please contact me by telephone at 250 387-9675 or by email at Karen.L.Christie@gov.bc.ca."

- **What is the process for rescinding Coquihalla's TOR?** Below is an excerpt from the letter. Do I need to prepare an Order or DN?

"Please be advised that due to its age, I will rescind the Coquihalla Project's final Terms of Reference document dated January 2009. When Westscapes Development Inc. resumes the EA process, a new Application Information Requirements (AIR) will need to be developed for the Coquihalla Project based on current Environmental Assessment Office (EAO) guidance for AIRs and current regulatory agency requirements for baseline information. In light of these potential changes to these key documents, I encourage Westscapes Development Inc. to contact EAO prior to undertaking additional studies or activities specific to meeting EA requirements."

Thanks!

Terry

From: Craven, Paul EAO:EX
Sent: Wednesday, May 25, 2016 8:58 AM
To: Christie, Karen L EAO:EX; Pratt, Terry EAO:EX
Cc: Pizarro, Kirsten EAO:EX; Murphy, Shelley EAO:EX
Subject: Update on Termination and Withdrawal

Hi,

We were going to update MABC on the results of our process. Karen/Terry – can you confirm that the highlighted ones are accurate? I guess MABC would not be interested in any of the gravel projects in any event.

Thanks,

Paul

Project	EA Status	Letter Type	Status
Arctos Anthracite	Section 11 Order only	Withdrawal Letter	Intends to remain in EA process.
Bear River Gravel	Section 11 Order only	Withdrawal Letter	In process of being withdrawn
Carbon Creek Coal	Section 11 Order only	Withdrawal Letter	In process of being withdrawn
Echo Hill Coal Project	Section 11 Order only	Withdrawal Letter	Intends to remain in EA process. Section 11 Order to be reviewed.

Highland Valley Copper Refinery	Section 10 Order Only	Withdrawal Letter	WITHDRAWN
Hills Bar Aggregate Quarrying Project	Section 11 Order only	Withdrawal Letter	In process of being withdrawn
Horizon Coal	AIR Outstanding 3+ years	Termination Letter	To be terminated, no objection
Kutcho Mine	AIR Outstanding 3+ years	Termination Letter	WITHDRAWN
Lodgepole Coal Mine	Section 11 Order only	Withdrawal Letter	WITHDRAWN
Raven Underground Coal	AIR Outstanding 3+ years	Termination Letter	TERMINATED
Schaft Creek Mine	AIR Outstanding 3+ years	Termination Letter	WITHDRAWN
Sechelt Carbonate Project	Section 10 Order Only	Withdrawal Letter	In process of being withdrawn
Spanish Mountain Gold	Section 11 Order only	Withdrawal Letter	Intends to remain in EA process. EAO will be reviewing the Section 11 Order to

			be updated. Draft AIR to be revised.
Sustut Copper Project	Section 10 Order Only	Withdrawal Letter	WITHDRAWN

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748
email_signature



From:	Scraba, Erin H EAO:EX
To:	Haines, Kate EAO:EX; Perry, Monica EAO:EX
Cc:	Craven, Paul EAO:EX; Pizarro, Kirsten EAO:EX
Subject:	Fee implications of terminated and withdrawn projects
Date:	Friday, June 17, 2016 10:44:44 AM
Attachments:	Fees-termination and witdrawal.docx Draft reactivation workplan (fees added).docx image001.jpg

As promised, I've added general fee information to Kate's plan for discussion. I've also prepared project specific implications for the case studies that were mentioned below and in the meeting. I may not have all the details on what was communicated in writing re: new AIR and new s. 11 order. Where we are repealing and replacing s. 11 orders for those project in pre-application, I am proposing that the transitional fee privilege be eliminated. There is significant staff effort associated with the new s. 11 order and AIR. Fees of $75 K will be levied at the time of the new section 11 order. A second fee installment of $75 K will be levied once the application is submitted. For those 2 projects in app review that were not previously subject to fees, the answer is "it depends". If they withdraw their applications AND we do a new s. 11 order and AIR, then I would propose that full fees apply. Section 4(2) of the regulation clearly provides for payment of fees on resubmission.

Once the workplan is finalized, Kirsten will incorporate into the termination and withdrawal procedures.

From: Haines, Kate EAO:EX
Sent: Friday, May 20, 2016 2:31 PM
To: Craven, Paul EAO:EX; Scraba, Erin H EAO:EX
Cc: Perry, Monica EAO:EX
Subject: Power sector - reactivation of inactive EAs - for comment

Hi Paul and Erin,

Monica and I have moved in to phase 2 of the power sector terminations/withdrawals – we are now calling it "reactivation" as there are four companies who have indicated they wish to proceed with the EA. For context, the projects are:

- Kinskuch - has a S.11 issued in 2008
- Ryan River - has a draft TOR posted in 2008
- Hackney Hills - has a Terms of Reference and accepted application in Sept 2009 but never started review. Potential for significant caribou issues in app review.
- Wildmare had a TOR that was updated to an AIR. It started app review and was suspended in Aug 2011, on day 147. The information requested in the suspension has never been provided.

Please find attached a draft workplan that we propose to share with proponents and use as the path forward for each reactivation. I will be setting up a time for the 4 of us to discuss, but any comments/suggestions in advance of the meeting are most welcome ☺

My view is that all proponents would have to begin at step one of the workplan with Section 11 updates. I appreciate that proponents may question the procedural fairness of essentially sending them back to the beginning, while keeping as much info as we can from the original app. However one could also argue that the most procedurally fair option for everyone is to clearly define how the rest of the reactivated EA will proceed by amending/replacing/supplementing the original documentation.

Definitely interested to hear your views on this point as well as Kevin's/Michelle's

Thanks
Kate
--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca
sig image


Page 3231 to/à Page 3232

Withheld pursuant to/removed as

s.17

Page 3233 to/à Page 3237

Withheld pursuant to/removed as

s.13

From:	Foote, Sheldon EAO:EX
To:	Haines, Kate EAO:EX; Christie, Karen L EAO:EX; Pratt, Terry EAO:EX
Cc:	Perry, Monica EAO:EX
Subject:	RE: QUESTION: Termination and Withdrawal
Date:	Monday, June 27, 2016 3:21:10 PM
Attachments:	image001.jpg image002.jpg 298728_Tsilhqot"in Power_13 May 2016.doc

Yes, I believe Steven is posting things to e-PIC now so you can let him know when needed.

I attached the final letter we sent out to Tsilhqot'in power as an example. You can find them all here:

I:\EAO\EAO_SHARED\BRIEFING NOTES\2016\Termination and Withdrawal\Monica's Projects\Notification of Withdrawal\Second Batch

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 1:56 PM
To: Christie, Karen L EAO:EX; Pratt, Terry EAO:EX
Cc: Foote, Sheldon EAO:EX; Perry, Monica EAO:EX
Subject: RE: QUESTION: Termination and Withdrawal

There was a TOR for the south meager project, but I did not rescind it, I simply terminated the project.

I have attached the work we have been doing with Paul's team with respect to the policy for projects who do wish to "reactivate" – erin gave some comments on fees that may be relevant.

From: Christie, Karen L EAO:EX
Sent: Monday, June 27, 2016 1:51 PM
To: Pratt, Terry EAO:EX
Cc: Haines, Kate EAO:EX; Foote, Sheldon EAO:EX
Subject: RE: QUESTION: Termination and Withdrawal

Hi Terry,

Re: Terminations and Withdrawals

1. "Final letter": I chatted with Monica, and she believes that:
    a. we send each company a final letter advising that the project has been withdrawn; and
    b. there is a template letter that you can use.

   Sheldon should be able to advise.

2. Process for rescinding an old TOR:
    a. a section 13 order needs to be issued;
    b. followed by a letter to the company.

Check with Kate to see if as part of terminations and withdrawals she rescinded a TOR & sent a letter afterwards that you can use as templates. If not, we will need to work with Paul Craven on the wording of the letter as there will be fee implications.

3. An additional question that Sheldon or Kate may be able to answer is who at EAO changes the status of an EA to "withdrawn" on e-PIC? Is it Susan or Steven, or someone else?

Karen

Karen Christie
Executive Project Director
1-836 Yates St., Victoria, B.C., V8W 1L8
Phone: (250) 387-9675 | Fax : 250-356-6448
Karen.L.Christie@gov.bc.ca | www.eao.gov.bc.ca

From: Pratt, Terry EAO:EX
Sent: June 24, 2016 12:56 PM
To: Christie, Karen L EAO:EX
Cc: Hall, Susan M EAO:EX
Subject: QUESTION: Termination and Withdrawal

Hi Karen

A couple of questions:

- On May 19th we sent letters to those proponents we hadn't gotten responses from to your Feb 26th letter. We gave them until June 18th or we would consider the project withdrawn from the EA. **For those proponents we haven't heard from, do I need to send them another letter advising them that the project is officially withdrawn?** Or is the letter sufficient? Excerpt below:

  "The Environmental Assessment Office (EAO) considers the fact that you have not replied as indication that you do not wish to proceed with the EA for Bear Project and wish to withdraw from the EA process. Accordingly, please be advised that EAO will consider Bear Project withdrawn from the EA as of June 18, 2016 if we do not hear from you.
  EAO will post this letter on its electronic Project Information Centre website at www.eao.gov.bc.ca. If you have any questions or require further information, please contact me by telephone at 250 387-9675 or by email at Karen.L.Christie@gov.bc.ca."

- **What is the process for rescinding Coquihalla's TOR?** Below is an excerpt from the letter. Do I need to prepare an Order or DN?

"Please be advised that due to its age, I will rescind the Coquihalla Project's final Terms of

Reference document dated January 2009. When Westscapes Development Inc. resumes the EA process, a new Application Information Requirements (AIR) will need to be developed for the Coquihalla Project based on current Environmental Assessment Office (EAO) guidance for AIRs and current regulatory agency requirements for baseline information. In light of these potential changes to these key documents, I encourage Westscapes Development Inc. to contact EAO prior to undertaking additional studies or activities specific to meeting EA requirements."

Thanks!

Terry

From: Craven, Paul EAO:EX
Sent: Wednesday, May 25, 2016 8:58 AM
To: Christie, Karen L EAO:EX; Pratt, Terry EAO:EX
Cc: Pizarro, Kirsten EAO:EX; Murphy, Shelley EAO:EX
Subject: Update on Termination and Withdrawal

Hi,

We were going to update MABC on the results of our process. Karen/Terry – can you confirm that the highlighted ones are accurate? I guess MABC would not be interested in any of the gravel projects in any event.

Thanks,

Paul

Project	EA Status	Letter Type	Status
Arctos Anthracite	Section 11 Order only	Withdrawal Letter	Intends to remain in EA process.
	Section 11	Withdrawal	In process of

Bear River Gravel	Order only	Letter	being withdrawn
Carbon Creek Coal	Section 11 Order only	Withdrawal Letter	In process of being withdrawn
Echo Hill Coal Project	Section 11 Order only	Withdrawal Letter	Intends to remain in EA process. Section 11 Order to be reviewed.
Highland Valley Copper Refinery	Section 10 Order Only	Withdrawal Letter	WITHDRAWN
Hills Bar Aggregate Quarrying Project	Section 11 Order only	Withdrawal Letter	In process of being withdrawn
Horizon Coal	AIR Outstanding 3+ years	Termination Letter	To be terminated, no objection
Kutcho Mine	AIR Outstanding 3+ years	Termination Letter	WITHDRAWN
Lodgepole Coal Mine	Section 11 Order only	Withdrawal Letter	WITHDRAWN
Raven Underground Coal	AIR Outstanding 3+ years	Termination Letter	TERMINATED
Schaft Creek Mine	AIR Outstanding 3+ years	Termination Letter	WITHDRAWN

Sechelt Carbonate Project	Section 10 Order Only	Withdrawal Letter	In process of being withdrawn
Spanish Mountain Gold	Section 11 Order only	Withdrawal Letter	Intends to remain in EA process. EAO will be reviewing the Section 11 Order to be updated. Draft AIR to be revised.
Sustut Copper Project	Section 10 Order Only	Withdrawal Letter	WITHDRAWN

Paul Craven,
Executive Director, Policy and Quality Assurance
Environmental Assessment Office
250-387-6748
email_signature



From: Foote, Sheldon EAO:EX
To: Perry, Monica EAO:EX
Cc: Denis, Alex EAO:EX
Subject: RE: Question
Date: Tuesday, June 28, 2016 12:39:11 PM

Hi again,

I found an email in TRIM from April from Leslie Douglas to May... does that name ring a bell as contact? Her email address is LDouglas@richmond.ca.

There have also been some emails from John Irving at City of Richmond whose address is jirving@richmond.ca.

Let me know if that's not what you're looking for!

Thanks,

Sheldon

-----Original Message-----
From: Perry, Monica EAO:EX
Sent: Tuesday, June 28, 2016 10:48 AM
To: Foote, Sheldon EAO:EX
Subject: Question

What is the name of the woman who is our contact at the city of Richmond. If you don't recall off hand (as I can't recall), you can find her name in the correspondence/emails with May on the port exemptions.

Sent from my iPhone

From: Foote, Sheldon EAO:EX
To: Perry, Monica EAO:EX
Subject: RE: Question
Date: Tuesday, June 28, 2016 12:22:59 PM

Hi Monica,

Sorry, just seeing this now. I am having a look, but so far can only find the contact for Port of Vancouver in the correspondence I received but will keep looking

-----Original Message-----
From: Perry, Monica EAO:EX
Sent: Tuesday, June 28, 2016 10:48 AM
To: Foote, Sheldon EAO:EX
Subject: Question

What is the name of the woman who is our contact at the city of Richmond. If you don't recall off hand (as I can't recall), you can find her name in the correspondence/emails with May on the port exemptions.

Sent from my iPhone

From: Denis, Alex EAO:EX
To: Perry, Monica EAO:EX
Subject: Re: Question
Date: Tuesday, June 28, 2016 12:04:44 PM

Hi Monica,

Both Sheldon and I are in the FN Consultation training so apologies on the late response. Sheldon is going to take a look and respond in like 20 minutes when she's back in office.

Thanks!

From: Perry, Monica EAO:EX
To: Foote, Sheldon EAO:EX
Cc: Denis, Alex EAO:EX
Subject: Re: Question
Date: Tuesday, June 28, 2016 1:51:43 PM

I forgot about the training. Yes that is exactly the info I needed. Many thanks.

Sent from my iPhone

> On Jun 28, 2016, at 12:39 PM, Foote, Sheldon EAO:EX <Sheldon.Foote@gov.bc.ca> wrote:
>
> Hi again,
>
> I found an email in TRIM from April from Leslie Douglas to May... does that name ring a bell as contact? Her email address is LDouglas@richmond.ca.
>
> There have also been some emails from John Irving at City of Richmond whose address is jirving@richmond.ca.
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> Let me know if that's not what you're looking for!
>
> Thanks,
>
> Sheldon
>
> -----Original Message-----
> From: Perry, Monica EAO:EX
> Sent: Tuesday, June 28, 2016 10:48 AM
> To: Foote, Sheldon EAO:EX
> Subject: Question
>
> What is the name of the woman who is our contact at the city of Richmond. If you don't recall off hand (as I can't recall), you can find her name in the correspondence/emails with May on the port exemptions.
>
> Sent from my iPhone

From:	Braun, Nathan EAO:EX
To:	Bailey, Scott EAO:EX; Murphy, Shelley EAO:EX; Christie, Karen L EAO:EX; Perry, Monica EAO:EX
Subject:	RE: Quick Q: Standard notification list
Date:	Wednesday, June 29, 2016 7:18:29 AM

No idea. I'd thought they were on the list.

Nathan

From: Bailey, Scott EAO:EX
Sent: 2016-06-29 6:23 AM
To: Braun, Nathan EAO:EX; Murphy, Shelley EAO:EX; Christie, Karen L EAO:EX; Perry, Monica EAO:EX
Subject: Quick Q: Standard notification list

Hi,

Does anyone know why health authorities are not part of the standard notification list for s10 orders? They used to be and now seem to have been purposefully removed?

This does not make sense to me as they are generally more involved than many of the ministries we include.

Sent from my Windows Phone

From: Christie, Karen L EAO:EX
To: Braun, Nathan EAO:EX; Bailey, Scott EAO:EX; Murphy, Shelley EAO:EX; Perry, Monica EAO:EX
Subject: RE: Quick Q: Standard notification list
Date: Wednesday, June 29, 2016 8:53:24 AM
Attachments: image001.jpg

I don't know either.

Karen Christie
Executive Project Director



1-836 Yates St., Victoria, B.C., V8W 1L8
Phone: (250) 387-9675| Fax : 250-356-6448
Karen.L.Christie@gov.bc.ca | www.eao.gov.bc.ca

From: Braun, Nathan EAO:EX
Sent: June 29, 2016 7:18 AM
To: Bailey, Scott EAO:EX; Murphy, Shelley EAO:EX; Christie, Karen L EAO:EX; Perry, Monica EAO:EX
Subject: RE: Quick Q: Standard notification list

No idea. I'd thought they were on the list.

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From: Bailey, Scott EAO:EX
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To: Braun, Nathan EAO:EX; Murphy, Shelley EAO:EX; Christie, Karen L EAO:EX; Perry, Monica EAO:EX
Subject: Quick Q: Standard notification list

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This does not make sense to me as they are generally more involved than many of the ministries we include.

Sent from my Windows Phone

From: Perry, Monica EAO:EX
To: Craven, Paul EAO:EX
Subject: Re: RBT2 Location and OneNote link
Date: Tuesday, June 28, 2016 11:47:59 AM

We are at lunch. Corner of west pender and Howe at scille

Sent from my iPhone

On Jun 28, 2016, at 9:45 AM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:

> Should be there about 11:30.
>
> Paul
>
> **From:** Perry, Monica EAO:EX
> **Sent:** Tuesday, June 28, 2016 9:38 AM
> **To:** Craven, Paul EAO:EX
> **Subject:** Re: RBT2 Location and OneNote link
>
> No worries. We have it all here. Let me know when you arrive and I can give you a bit of a debrief on the morning.
>
> Sent from my iPhone
>
> On Jun 28, 2016, at 7:49 AM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:
>
> > Thanks. See you there. Unfortunately the link does not work for me but I think (hope) I have everything I need.
> >
> > Paul
> >
> > **From:** Perry, Monica EAO:EX
> > **Sent:** Monday, June 27, 2016 6:44 PM
> > **To:** Craven, Paul EAO:EX
> > **Cc:** Haines, Kate EAO:EX; Grace, David H EAO:EX
> > **Subject:** FW: RBT2 Location and OneNote link
> >
> > Paul,
> >
> > Kate created a OneNote page, that you should be able to access as well. It has all the key documents. Not sure how to load things up on the page, so the PP with notes is note there.
> >
> > The panel session is being held at the Downtown Vancouver Simon Fraser University – Segal Building, 500 Granville Street, Vancouver Room 1200-1500.
> >
> > Let me know if you need anything else.

From: Grace, David H EAO:EX
Sent: Monday, June 27, 2016 4:33 PM
To: Perry, Monica EAO:EX
Cc: Haines, Kate EAO:EX
Subject: FW: RBT2 one note

Hi Monica – see Kate's magic onenote!

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 3:14 PM
To: Grace, David H EAO:EX
Subject: RBT2 one note

RBT2

Give this a try

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

<image001.jpg>

From: Craven, Paul EAO:EX
To: Perry, Monica EAO:EX
Subject: RE: RBT2 Location and OneNote link
Date: Tuesday, June 28, 2016 9:45:12 AM

Should be there about 11:30.

Paul

From: Perry, Monica EAO:EX
Sent: Tuesday, June 28, 2016 9:38 AM
To: Craven, Paul EAO:EX
Subject: Re: RBT2 Location and OneNote link

No worries. We have it all here. Let me know when you arrive and I can give you a bit of a debrief on the morning.

Sent from my iPhone

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> **Sent:** Monday, June 27, 2016 6:44 PM
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> **Cc:** Haines, Kate EAO:EX; Grace, David H EAO:EX
> **Subject:** FW: RBT2 Location and OneNote link
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> Let me know if you need anything else.
>
> ---
>
> **From:** Grace, David H EAO:EX
> **Sent:** Monday, June 27, 2016 4:33 PM
> **To:** Perry, Monica EAO:EX
> **Cc:** Haines, Kate EAO:EX
> **Subject:** FW: RBT2 one note

Hi Monica – see Kate's magic onenote!

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 3:14 PM
To: Grace, David H EAO:EX
Subject: RBT2 one note

RBT2

Give this a try

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

<image001.jpg>

From: Perry, Monica EAO:EX
To: Craven, Paul EAO:EX
Subject: Re: RBT2 Location and OneNote link
Date: Tuesday, June 28, 2016 9:38:06 AM
Attachments: image001.jpg

No worries. We have it all here. Let me know when you arrive and I can give you a bit of a debrief on the morning.

Sent from my iPhone

On Jun 28, 2016, at 7:49 AM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:

> Thanks. See you there. Unfortunately the link does not work for me but I think (hope) I have everything I need.
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>
> **From:** Perry, Monica EAO:EX
> **Sent:** Monday, June 27, 2016 6:44 PM
> **To:** Craven, Paul EAO:EX
> **Cc:** Haines, Kate EAO:EX; Grace, David H EAO:EX
> **Subject:** FW: RBT2 Location and OneNote link
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> Let me know if you need anything else.
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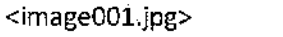
>
> **From:** Grace, David H EAO:EX
> **Sent:** Monday, June 27, 2016 4:33 PM
> **To:** Perry, Monica EAO:EX
> **Cc:** Haines, Kate EAO:EX
> **Subject:** FW: RBT2 one note
>
> Hi Monica – see Kate's magic onenote!
>
> ---
>
> **From:** Haines, Kate EAO:EX
> **Sent:** Monday, June 27, 2016 3:14 PM
> **To:** Grace, David H EAO:EX
> **Subject:** RBT2 one note

RBT2

Give this a try

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From:	Craven, Paul EAO:EX
To:	Perry, Monica EAO:EX
Cc:	Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject:	RE: RBT2 Location and OneNote link
Date:	Tuesday, June 28, 2016 7:49:02 AM
Attachments:	image001.jpg

Thanks. See you there. Unfortunately the link does not work for me but I think (hope) I have everything I need.

Paul

From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 6:44 PM
To: Craven, Paul EAO:EX
Cc: Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject: FW: RBT2 Location and OneNote link

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Cc: Haines, Kate EAO:EX
Subject: FW: RBT2 one note

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To: Grace, David H EAO:EX
Subject: RBT2 one note

RBT2

Give this a try

--
Kate Haines

Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Craven, Paul EAO:EX
To: Perry, Monica EAO:EX
Subject: Re: RBT2 Location and OneNote link
Date: Tuesday, June 28, 2016 11:55:50 AM

Mark and I will drop by.

Paul

Sent from my iPhone

On Jun 28, 2016, at 11:47 AM, Perry, Monica EAO:EX <Monica.Perry@gov.bc.ca> wrote:

> We are at lunch. Corner of west pender and Howe at scille
>
> Sent from my iPhone
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> On Jun 28, 2016, at 9:45 AM, Craven, Paul EAO:EX <Paul.Craven@gov.bc.ca> wrote:
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Subject: RBT2 one note

RBT2

Give this a try

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

<image001.jpg>

From:	Fradley, Adria N ENV:EX
To:	"Panel.RBT2@ceaa.gc.ca"
Cc:	Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Haines, Kate EAO:EX; Zacharias, Mark ENV:EX; Carsen, Dannie CSCD:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
Subject:	RE: RBT2 Panel presentations - CSCD Presentation
Date:	Monday, June 27, 2016 11:29:56 AM
Attachments:	CAS - Robert Bank Review Panel.pptx

Good Morning,

Please see attached the Climate Action Secretariat slides for the June 28th Review Panel Orientation Session of the RBT2.

From: Haines, Kate EAO:EX
Sent: Friday, June 24, 2016 2:01 PM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX
Subject: RBT2 Panel presentations - update from EAO

Good afternoon,

I am writing to follow up with details regarding next week's presentations at the RBT2 federal review panel orientation session.

First, presentations are due in to the panel "no later than **Monday June 27, 2016 at 12:00 pm PST**. Presentations should be in powerpoint format. All submissions are to be sent to the Review Panel at Panel.RBT2@ceaa.gc.ca."

Please also copy your powerpoint presentation to the recipient list in this email so that we can all have a chance to review each other's submissions and have an opportunity to ask each other any questions of clarification on cross cutting issues.

Attached for your reference are EAO's draft deck, a table summarizing the key provincial contacts/presenters, and an email with some more details about the schedule for Tuesday's panel session.

Kevin Jardine will be circulating the response letter to the panel (coordinated by EAO this week) to his deputy colleagues later today – we are still waiting on one ministry's response.

Monica and I are both available this afternoon and Monday to connect on the phone and discuss anything that still requires clarification. Thanks for your hard work to pull this information together for the panel so quickly.

Thanks,

Kate

--

Kate Haines

Project Assessment Manager

250-387-2174

Kate.Haines@gov.bc.ca

<< OLE Object: Picture (Device Independent Bitmap) >>

From: Grace, David H EAO:EX
To: Haines, Kate EAO:EX; "Panel.RBT2@ceaa.gc.ca"
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RE: RBT2 Panel presentations - EAO presentation
Date: Tuesday, June 28, 2016 6:22:52 AM
Attachments: RBT2 - All Presentations.pdf
image002.jpg
image003.jpg

Good morning,

Please find attached a pdf containing all of the Provincial presentations for the RBT2 Orientation session.

Regards,
David

David Grace
Project Assessment Manager
BC Environmental Assessment Office

Tel: 250-387-1417
Cell: 250-818-7485
David.Grace@gov.bc.ca
email_signature

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

cid:image001.jpg@01D1D104.B489D020



From: Vinette, Nicole EAO:EX
To: Perry, Monica EAO:EX; Grace, David H EAO:EX
Cc: Haines, Kate EAO:EX; Craven, Paul EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation
Date: Monday, June 27, 2016 4:19:07 PM

Thanks, Monica. I'll let GCPE know.

--Nicole

Nicole Vinette
Manager of Communications & Stakeholder Engagement
Environmental Assessment Office

250-356-5311
Nicole.Vinette@gov.bc.ca

-----Original Message-----
From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 4:19 PM
To: Grace, David H EAO:EX; Vinette, Nicole EAO:EX
Cc: Haines, Kate EAO:EX; Craven, Paul EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

I don't think Paul will be there all day so it should be me.

-----Original Message-----
From: Grace, David H EAO:EX
Sent: Monday, June 27, 2016 4:14 PM
To: Vinette, Nicole EAO:EX
Cc: Haines, Kate EAO:EX; Perry, Monica EAO:EX; Craven, Paul EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Hi Nicole,

As discussed, please find below the CEAA media contact that will be on site during the CEAA Orientation Session tomorrow.

Monica/Paul - Nicole suggested having one person on point if we get questions from the media.

DG

-----Original Message-----
From: Saely,Analise [CEAA] [mailto:Analise.Saely@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 4:03 PM
To: Grace, David H EAO:EX; Haines, Kate EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

Yes, so sorry. Here you go,

Lucille Jamault

Manager - Communications
Canadian Environmental Assessment Agency/ Government of Canada lucille.jamault@ceaa.gc.ca / Tel: 613-957-0434 / cell: 613-552-5253 /
ceaa.gc.ca

Analise Saely
604-666-9169

-----Original Message-----
From: Grace, David H EAO:EX [mailto:David.Grace@gov.bc.ca]
Sent: June 27, 2016 4:01 PM
To: Saely,Analise [CEAA]; Haines, Kate EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

Thanks Analise

Any chance you could please send your media contact details.

Much appreciated.

DG

-----Original Message-----
From: Saely,Analise [CEAA] [mailto:Analise.Saely@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 3:55 PM
To: Haines, Kate EAO:EX
Cc: Grace, David H EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

Yup, should be all good now!

Analise Saely
604-666-9169

-----Original Message-----
From: Haines, Kate EAO:EX [mailto:Kate.Haines@gov.bc.ca]
Sent: June 27, 2016 3:46 PM
To: Saely,Analise [CEAA]
Cc: Grace, David H EAO:EX
Subject: Re: RBT2 Panel presentations - EAO presentation

Assume this means you can load it on to the presentation computer? Just checking if we still need a thumb drive option.

Thanks!

On Jun 27, 2016, at 3:01 PM, Saely,Analise [CEAA] <Analise.Saely@ceaa-acee.gc.ca<mailto:Analise.Saely@ceaa-acee.gc.ca>>
wrote:

Received and printing.

Analise Saely
604-666-9169

From: Haines, Kate EAO:EX [mailto:Kate.Haines@gov.bc.ca]

Sent: June 27, 2016 2:53 PM
To: Ronzio,Joseph [CEAA]; Saely,Analise [CEAA]; Myles,Debra [CEAA]
Cc: Grace, David H EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Please confirm receipt

From: Grace, David H EAO:EX
Sent: Monday, June 27, 2016 2:48 PM
To: Ronzio,Joseph [CEAA]; Myles,Debra [CEAA]
Cc: Haines, Kate EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Please confirm receipt.
Regards,

David

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 1:05 PM
To: 'panel.RBT2@ceaa.gc.ca<mailto:panel.RBT2@ceaa.gc.ca>'
Cc: 'Debra.Myles@ceaa-acee.gc.ca<mailto:Debra.Myles@ceaa-acee.gc.ca>';
Ronzio,Joseph [CEAA]
<Joseph.Ronzio@ceaa-acee.gc.ca<mailto:Joseph.Ronzio@ceaa-acee.gc.ca>>
(Joseph.Ronzio@ceaa-acee.gc.ca<mailto:Joseph.Ronzio@ceaa-acee.gc.ca>);
Grace, David H EAO:EX; Perry, Monica EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Resending and copying Joe and Debra as I got a bounce back from my submission to the panel email this morning

From: Haines, Kate EAO:EX
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Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX;
Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk,
Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim
HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca<mailto:Kate.Haines@gov.bc.ca>

<image001.jpg>

From: Perry, Monica EAO:EX
To: Grace, David H EAO:EX; Vinette, Nicole EAO:EX
Cc: Haines, Kate EAO:EX; Craven, Paul EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation
Date: Monday, June 27, 2016 4:18:00 PM

I don't think Paul will be there all day so it should be me.

-----Original Message-----
From: Grace, David H EAO:EX
Sent: Monday, June 27, 2016 4:14 PM
To: Vinette, Nicole EAO:EX
Cc: Haines, Kate EAO:EX; Perry, Monica EAO:EX; Craven, Paul EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Hi Nicole,

As discussed, please find below the CEAA media contact that will be on site during the CEAA Orientation Session tomorrow.

Monica/Paul - Nicole suggested having one person on point if we get questions from the media.

DG

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From: Saely,Analise [CEAA] [mailto:Analise.Saely@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 4:03 PM
To: Grace, David H EAO:EX; Haines, Kate EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

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Lucille Jamault
Manager - Communications
Canadian Environmental Assessment Agency/ Government of Canada lucille.jamault@ceaa.gc.ca / Tel: 613-957-0434 / cell: 613-552-5253 /
ceaa.gc.ca

Analise Saely
604-666-9169

-----Original Message-----
From: Grace, David H EAO:EX [mailto:David.Grace@gov.bc.ca]
Sent: June 27, 2016 4:01 PM
To: Saely,Analise [CEAA]; Haines, Kate EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

Thanks Analise

Any chance you could please send your media contact details.

Much appreciated.

DG

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From: Saely,Analise [CEAA] [mailto:Analise.Saely@ceaa-acee.gc.ca]
Sent: Monday, June 27, 2016 3:55 PM
To: Haines, Kate EAO:EX
Cc: Grace, David H EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation

Yup, should be all good now!

Analise Saely
604-666-9169

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Sent: June 27, 2016 3:46 PM
To: Saely,Analise [CEAA]
Cc: Grace, David H EAO:EX
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wrote:

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Analise Saely
604-666-9169

From: Haines, Kate EAO:EX [mailto:Kate.Haines@gov.bc.ca]
Sent: June 27, 2016 2:53 PM
To: Ronzio,Joseph [CEAA]; Saely,Analise [CEAA]; Myles,Debra [CEAA]
Cc: Grace, David H EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Please confirm receipt

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Cc: Haines, Kate EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Please confirm receipt.
Regards,

David

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 1:05 PM
To: 'panel.RBT2@ceaa.gc.ca<mailto:panel.RBT2@ceaa.gc.ca>'
Cc: 'Debra.Myles@ceaa-acee.gc.ca<mailto:Debra.Myles@ceaa-acee.gc.ca>';

From: Craven, Paul EAO:EX
To: Haines, Kate EAO:EX
Cc: Perry, Monica EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation
Date: Monday, June 27, 2016 12:16:24 PM
Attachments: image001.jpg

No need if there no further changes. Thanks.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:29 AM
To: Craven, Paul EAO:EX
Cc: Perry, Monica EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Hi Paul,

Here is the final version of the PPT for tomorrow that was submitted to the panel. I made updates based on your comments and the final version of Kevin's letter that went to the panel on Friday, and Kevin reviewed and signed off this morning.

Monica is working on speaking notes and will share them when they are ready.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

Ronzio,Joseph [CEAA]
<Joseph.Ronzio@ceaa-acee.gc.ca<mailto:Joseph.Ronzio@ceaa-acee.gc.ca>>
(Joseph.Ronzio@ceaa-acee.gc.ca<mailto:Joseph.Ronzio@ceaa-acee.gc.ca>);
Grace, David H EAO:EX; Perry, Monica EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Resending and copying Joe and Debra as I got a bounce back from my submission to the panel email this morning

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca<mailto:Panel.RBT2@ceaa.gc.ca>'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca<mailto:Kate.Haines@gov.bc.ca>

<image001.jpg>

From: Craven, Paul EAO:EX
To: Haines, Kate EAO:EX
Cc: Perry, Monica EAO:EX
Subject: RE: RBT2 Panel presentations - EAO presentation
Date: Monday, June 27, 2016 12:14:44 PM
Attachments: image001.jpg

Thanks. Can you please send me a copy of the letter from Kevin. Thanks.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:29 AM
To: Craven, Paul EAO:EX
Cc: Perry, Monica EAO:EX
Subject: FW: RBT2 Panel presentations - EAO presentation

Hi Paul,

Here is the final version of the PPT for tomorrow that was submitted to the panel. I made updates based on your comments and the final version of Kevin's letter that went to the panel on Friday, and Kevin reviewed and signed off this morning.

Monica is working on speaking notes and will share them when they are ready.

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Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From:	Gow, Lisa A TRAN:EX
To:	Haines, Kate EAO:EX; "Panel.RBT2@ceaa.gc.ca"
Cc:	Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject:	RE: RBT2 Panel presentations - EAO presentation
Date:	Monday, June 27, 2016 11:26:14 AM
Attachments:	BC Ministry of Transportation and Infrastructure CEAA Panel Presentation (nsn).pptx image001.jpg

Good morning – here is the BC Ministry of Transportation presentation.

Lisa Gow
Ministry of Transportation and Infrastructure

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Perry, Monica EAO:EX
To: Gow, Lisa A TRAN:EX
Subject: Re: RBT2 Panel presentations - EAO presentation
Date: Tuesday, June 28, 2016 8:25:11 AM

No concerns. See you soon.

Sent from my iPhone

On Jun 28, 2016, at 7:34 AM, Gow, Lisa A TRAN:EX <Lisa.Gow@gov.bc.ca> wrote:

> Hi Monica
> Are you OK with this approach?
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> **From:** "Gow, Lisa A TRAN:EX" <Lisa.Gow@gov.bc.ca>
> **Date:** June 28, 2016 at 7:32:35 AM PDT
> **To:** "Grace, David H EAO:EX" <David.Grace@gov.bc.ca>
> **Subject: Re: RBT2 Panel presentations - EAO presentation**
>
> Thanks David. Just a heads up, I will only be in Vancouver for the afternoon session. I also have a staff, Kirk Rockerbie, who will be joining me. Any issues?
>
> Sent from my iPhone
>
> On Jun 28, 2016, at 6:22 AM, Grace, David H EAO:EX <David.Grace@gov.bc.ca> wrote:
>
> > Good morning,
> >
> > Please find attached a pdf containing all of the Provincial presentations for the RBT2 Orientation session.
> >
> > Regards,
> > David
> >
> > **David Grace**
> > Project Assessment Manager
> > BC Environmental Assessment Office
> >
> > Tel: 250-387-1417
> > Cell: 250-818-7485
> > David.Grace@gov.bc.ca



From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 11:15 AM
To: 'Panel.RBT2@ceaa.gc.ca'
Cc: Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; Carsen, Dannie CSCD:EX
Subject: RBT2 Panel presentations - EAO presentation

Good morning,

Please find attached EAO's presentation to the panel tomorrow.

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

<RBT2 - All Presentations.pdf>

From:	Higgs, Jeremy JTST:EX
To:	Haines, Kate EAO:EX; "Panel.RBT2@ceaa.gc.ca"
Cc:	Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HL TH:EX; Carsen, Dannie CSCD:EX
Subject:	RE: RBT2 Panel presentations - JTSTL presentation
Date:	Monday, June 27, 2016 11:36:03 AM
Attachments:	June 28 Draft PPT presentation JTSTL LMIO.pdf

Good morning,

I am writing to submit a presentation to the Roberts Bank Terminal 2 Review Panel from the Ministry of Jobs, Tourism and Skills Training and Responsible for Labour (MJTSTL), Province of British Columbia for the Panel Orientation session tomorrow.

From the draft agenda for tomorrow, I note that the MJTSTL is not currently listed among the provincial government Ministries that will appear in-person tomorrow afternoon. I will be at the panel session tomorrow afternoon. Please let me know if there are any questions.

J.

Jeremy Higgs
Executive Director – Chief Labour Market Economist
Labour Market Information Office (LMIO)
Labour Market and Information Division
Ministry of Jobs, Tourism and Skills Training and Responsible for Labour
250-387-5631
Mobile: 250-217-9398

From: McDonald, Tavis EAO:EX
To: EAO Support EAO:EX; Fenton, Chrystal EAO:EX; Hall, Susan M EAO:EX; De Almeida, Steven EAO:EX
Cc: Hardie, Karie EAO:EX; Perry, Monica EAO:EX; Murphy, Shelley EAO:EX
Subject: RE: Red Willow AIR Notification package
Date: Tuesday, June 28, 2016 9:56:11 AM
Attachments: image001.jpg
image002.jpg

Morning,

EAO received additional input from FNs on the draft AIR that we are taking into consideration before we finalise. My thanks for the work on the notification package to date. The new timeline to finalise the AIR will likely be late July.

T

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871
email_signature



From: McDonald, Tavis EAO:EX
Sent: Friday, June 24, 2016 10:49 AM
To: EAO Support EAO:EX; Fenton, Chrystal EAO:EX; Hall, Susan M EAO:EX; De Almeida, Steven EAO:EX
Cc: Hardie, Karie EAO:EX; Perry, Monica EAO:EX; Murphy, Shelley EAO:EX
Subject: Red Willow AIR Notification package

The Red Willow Wind AIR is ready for finalisation. I would like to see it go out for June 30, 2016 but please let me know if there's any scheduling conflicts.

Letters for formatting and email send out is here. Karie can you please check over to confirm correct contacts and then let Steven know they're good to go.

Information for posting to epic is here

- ACR
- PCR
- Final AIR
- WG Tracking Table
- Public Comment Tracking Table

IT- here is the pre-approved wording:

Approved Application Information Requirements

Application Information Requirements
Red Willow Wind
Red Willow Wind Limited Partnership

Environmental Assessment Office has approved the Application Information Requirements for the proposed project. The document specifies the information that must be contained in the proponent's Application for an Environmental Assessment Certificate. [read more linked to relevant page in e-PIC]
June 30, 2016

See below draft Milestone Bullet to be sent the Ministers Office.

• Red Willow Wind Project (Minister Bill Bennett – Ministry of Energy and Mines:

On June 30, 2016 EAO issued the Application Information Requirements for the proposed Red Willow Wind Project. The Application Information Requirements specify the studies to be conducted and the detailed information to be provided in the Application for an Environmental Assessment Certificate.

The Red Willow Wind Project would involve the construction and operation of a 200 to 350 megawatt wind energy facility in the Peace River region in BC. The Project is located southeast of the District of Tumbler Ridge and within the traditional territory of Treaty 8 First Nations.

Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871
email_signature



From: Perry, Monica EAO:EX
To: McDonald, Tavis EAO:EX
Cc: Haines, Kate EAO:EX
Subject: RE: Red Willow AIR Notification package
Date: Wednesday, June 29, 2016 10:22:00 AM
Attachments: image001.jpg
image002.jpg

Thanks Tavis.

From: McDonald, Tavis EAO:EX
Sent: Tuesday, June 28, 2016 9:56 AM
To: EAO Support EAO:EX; Fenton, Chrystal EAO:EX; Hall, Susan M EAO:EX; De Almeida, Steven EAO:EX
Cc: Hardie, Karie EAO:EX; Perry, Monica EAO:EX; Murphy, Shelley EAO:EX
Subject: RE: Red Willow AIR Notification package

Morning,

EAO received additional input from FNs on the draft AIR that we are taking into consideration before we finalise. My thanks for the work on the notification package to date. The new timeline to finalise the AIR will likely be late July.

T

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Tavis McDonald
Project Assessment Manager, Environmental Assessment Office
Telephone: (250) 638-5172 | Mobile: (250) 631-2871
email_signature



From:	Medgyesi, Mark S SDSI:EX
To:	Perry, Monica EAO:EX; Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject:	RE: Roberts Bank Terminal 2 - EAO coordinated response
Date:	Monday, June 27, 2016 3:37:42 PM
Attachments:	image001.jpg

Thanks...that was my take too, good to have the reassurance...M

From: Perry, Monica EAO:EX
Sent: Monday, June 27, 2016 3:36 PM
To: Haines, Kate EAO:EX; Grace, David H EAO:EX; Medgyesi, Mark S SDSI:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

I think it is unlikely they would contact you tomorrow. The statement is there to ensure the door is not closed to contacting SDSI if needed. Do not worry about being on point tomorrow. If the panel wants to talk to you they will find a way. Thanks so much for your participation to date. It has been great that people have been so responsive. Call us any time if you have any questions. Monica.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 1:34 PM
To: Grace, David H EAO:EX; Perry, Monica EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

Hi Mark, I'm actually not sure, I expect the follow up would be subsequent to the orientation session tomorrow... copying to Monica and David for their sense of what to anticipate.

From: Medgyesi, Mark S SDSI:EX
Sent: Monday, June 27, 2016 1:32 PM
To: Haines, Kate EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

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Cc: Grace, David H EAO:EX
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Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Perry, Monica EAO:EX
To: Haines, Kate EAO:EX; Grace, David H EAO:EX; Medgyesi, Mark S SDSI:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response
Date: Monday, June 27, 2016 3:36:00 PM
Attachments: image001.jpg

I think it is unlikely they would contact you tomorrow. The statement is there to ensure the door is not closed to contacting SDSI if needed. Do not worry about being on point tomorrow. If the panel wants to talk to you they will find a way. Thanks so much for your participation to date. It has been great that people have been so responsive. Call us any time if you have any questions. Monica.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 1:34 PM
To: Grace, David H EAO:EX; Perry, Monica EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

Hi Mark, I'm actually not sure, I expect the follow up would be subsequent to the orientation session tomorrow... copying to Monica and David for their sense of what to anticipate.

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Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response
Date: Monday, June 27, 2016 9:54:17 AM
Attachments: image001.jpg

Further to my note this morning, the draft agenda for tomorrow has been posted to the CEA registry:

http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

If you wish to be added to the panel's distribution list to receive updates, you may provide your name and email address to Panel.RBT2@ceaa.gc.ca.

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Kate.Haines@gov.bc.ca



From:	Haines, Kate EAO:EX
To:	Grace, David H EAO:EX; Perry, Monica EAO:EX
Subject:	RE: Roberts Bank Terminal 2 - EAO coordinated response
Date:	Monday, June 27, 2016 1:34:23 PM
Attachments:	image001.jpg

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Cc:	Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject:	RE: Roberts Bank Terminal 2 - EAO coordinated response
Date:	Monday, June 27, 2016 8:12:49 AM
Attachments:	RBT2 Panel presentations - update from EAO.msg FW Roberts Bank Terminal 2 Coordianted Provincial Response.msg image001.jpg

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Cc:	Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX; Grace, David H EAO:EX
Subject:	RBT2 Panel presentations - update from EAO
Date:	Friday, June 24, 2016 2:00:00 PM
Attachments:	FW Review Panel Roberts Bank Terminal 2 Project - Orientation Session Commission d"examen Projet du Terminal 2 à Roberts Bank - séance d"orientation.msg June 28 Draft PPT presentation.pptx Panel attendees tracking.docx image003.jpg

Good afternoon,

I am writing to follow up with details regarding next week's presentations at the RBT2 federal review panel orientation session.

First, presentations are due in to the panel "no later than **Monday June 27, 2016 at 12:00 pm PST**. Presentations should be in powerpoint format. All submissions are to be sent to the Review Panel at Panel.RBT2@ceaa.gc.ca."

Please also copy your powerpoint presentation to the recipient list in this email so that we can all have a chance to review each other's submissions and have an opportunity to ask each other any questions of clarification on cross cutting issues.

Attached for your reference are EAO's draft deck, a table summarizing the key provincial contacts/presenters, and an email with some more details about the schedule for Tuesday's panel session.

Kevin Jardine will be circulating the response letter to the panel (coordinated by EAO this week) to his deputy colleagues later today – we are still waiting on one ministry's response.

Monica and I are both available this afternoon and Monday to connect on the phone and discuss anything that still requires clarification. Thanks for your hard work to pull this information together for the panel so quickly.

Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca

sig image



From: Perry, Monica EAO:EX
To: Perry, Monica EAO:EX
Subject: FW: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d"examen, Projet du Terminal 2 à Roberts Bank - séance d"orientation
Date: Monday, June 27, 2016 6:40:00 PM

-----Original Message-----
From: Perry, Monica EAO:EX
Sent: Friday, June 24, 2016 12:52 PM
To: Haines, Kate EAO:EX
Subject: FW: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation

Kate, we should include this email. It has the draft schedule from the panel

-----Original Message-----
From: Myles,Debra [CEAA] [mailto:Debra.Myles@ceaa-acee.gc.ca]
Sent: Friday, June 24, 2016 7:25 AM
To: Panel.RBT2@ceaa.gc.ca
Subject: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation

Orientation Session
The Review Panel invites the public to attend, or observe via webcast, an orientation session where information will be provided by federal and provincial bodies that have a mandate and expertise in relation to the proposed Project and its potential environmental effects. The Project Proponent, the Vancouver Fraser Port Authority, will provide an overview of its responsibilities as they relate to marine activities. Although participants and the public will not have an opportunity to ask questions during the session, follow-up questions may be sent to the Panel for its consideration.
The Review Panel intends to provide a live webcast of the orientation session and to archive the video recording. A transcript of the proceedings will be posted on the Registry following the session. The orientation session will be held on Tuesday, June 28, 2016 from 9:00 am - 5:00 pm local time at Simon Fraser University - Segal Building, 500 Granville Street, Vancouver.
Please access the webcast at: http://events.xclivebroadcast.com/events/junc28robertsbankterminal2/

The webcast viewing instructions are available at: http://xclivebroadcast.com/instructions/

The draft schedule for the orientation session is posted on the Registry at: http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

Séance d'orientation
La Commission d'examen invite le public à assister en personne ou par diffusion Web à une séance d'orientation au cours de laquelle des renseignements seront fournis par les organismes gouvernementaux fédéraux et provinciaux qui disposent du mandat et de l'expertise nécessaires relativement au projet proposé et à ses effets environnementaux potentiels. Le promoteur du projet, l'Administration portuaire Vancouver-Fraser, fournira un aperçu de ses responsabilités en ce qui concerne les activités maritimes. Bien que les participants et le public n'auront pas la possibilité de poser des questions au cours de la séance, des questions pourront être acheminées ultérieurement à la Commission pour examen.
La Commission d'examen souhaite offrir une webdiffusion en direct de la séance d'orientation et archiver l'enregistrement vidéo. Une transcription des procédures sera publiée dans le Registre après la séance. La séance d'orientation se tiendra mardi le 28 juin de 9 h à 17 h, heure locale, à l'Université Simon Fraser - Édifice Segal, 500,

rue Granville, Vancouver.
Si vous plait suivez la webdiffusion à l'adresse Internet suivante :
http://events.xelivebroadcast.com/events/june28robertsbankterminal2/
L'instructions de la webdiffusion sont disponible à: http://xelivebroadcast.com/instructions/

Le horaire ébauche de la session d'orientation est affiché sur le Registre à: http://ceaa-acee.gc.ca/050/documents/p80054/114746F.pdf

Review Panel Secretariat, Roberts Bank Terminal 2 Project | Secrétariat de la commission d'examen, Projet du Terminal 2 à Roberts Bank c/o Canadian Environmental Assessment Agency | a/s de l'Agence canadienne d'évaluation environnementale 22nd Floor, 160 Elgin St. Ottawa ON K1A 0H3 | 160, rue Elgin, 22ième étage, Ottawa ON K1A 0H3 Panel.RBT2@ceaa.gc.ca / Commission.RBT2@acee.gc.ca
Tel: 613-957-0626 / toll free 1-866-582-1884 | Tél. : 613-957-0626 / sans frais: 1-866-582-1884

From:	Perry, Monica EAO:EX
To:	Craven, Paul EAO:EX; Haines, Kate EAO:EX; Grace, David H EAO:EX
Subject:	FW: Roberts Bank Terminal 2 Coordianted Provincial Response
Date:	Friday, June 24, 2016 4:08:26 PM
Attachments:	301464_Response re Federal Panel RBT2_24June2016-signed.pdf 301464_Response re Federal Panel RBT2_21June2016.pdf image001.jpg

---

From: Loiacono, Sabrina EAO:EX **On Behalf Of** Jardine, Kevin EAO:EX
Sent: Friday, June 24, 2016 4:07 PM
To: Jardine, Kevin EAO:EX; Baskerville, Shannon JTST:EX; Brown, Stephen R HLTH:EX; Caul, Doug D ABR:EX; Dawes, Jacquie CSCD:EX; Main, Grant TRAN:EX; Mihlar, Fazil ENV:EX; Sheldan, Tim FLNR:EX; Shoemaker, Wes ENV:EX; Sturko, Derek AGRI:EX; Taylor, Sheila A SDSI:EX
Cc: Carr, Michelle EAO:EX; Perry, Monica EAO:EX
Subject: Roberts Bank Terminal 2 Coordianted Provincial Response

Colleagues,

Further to my email below, attached is the provincial response to the Roberts Bank Terminal 2 (RBT2) Independent Panel's June 9, 2016 letter to provincial Deputy Ministers. As stated below, EAO committed to supporting your ministry in participating in the EAs for this proposed project and have worked directly with your staff to coordinate the administrative information requested in the June 9th letter. Michelle Carr, ADM of EA Operations reached out to the relevant ADMs in your ministries. A big thank-you to all agency staff who helped pull this information together so quickly.

We have forwarded the attached provincial response letter to the panel. The panel also sent letters to the provincial Deputy Ministers requesting attendance at the Orientation Session on June 28, 2016 in Vancouver. EAO will be attending the session along with other key provincial ministry representatives. Each attending ministry is responsible for preparing their own presentation and providing the presentation directly to the Review Panel no later than Monday June 27, 2016 at 12:00 pm PST. EAO staff are following up with each agency that have indicated they will be attending the Orientation Session and are working with them on the overall presentation framework.

For agencies not attending, you may want to respond to the panel request directly by letting them know you will not be there (June 12, 2016 follow up letter to provincial Deputy Ministers). EAO staff have been coordinating with agencies to avoid duplication and have provided names of confirmed attendees to the panel already. You will note that we also included agency contact information in the response letter. Regardless of this information, the panel will likely contact those agencies not attending.

Also attached for your information is a letter sent to the panel on June 21, 2016 that clarifies the provincial approach. In that letter I indicate that those ministries whose mandates and authorities necessitate participation in subsequent review processes, will work directly with the panel members with regard to provisions of information requested during the review process. However, EAO will continue to support ministries and coordinate efforts with them throughout the review process. To that end, if you or your staff have any questions, do not hesitate to contact me, Michelle Carr , or Monica Perry, EAO's transportation sector lead for this project.

With very best regards,

K.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment

Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753
email_signature

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

From: Loiacono, Sabrina EAO:EX **On Behalf Of** Jardine, Kevin EAO:EX
Sent: Friday, June 10, 2016 4:44 PM
To: Baskerville, Shannon JTST:EX; Brown, Stephen R HLTH:EX; Caul, Doug D ABR:EX; Dawes, Jacquie CSCD:EX; Main, Grant TRAN:EX; Mihlar, Fazil ENV:EX; Sheldan, Tim FLNR:EX; Shoemaker, Wes ENV:EX; Sturko, Derek AGRI:EX; Taylor, Sheila A SDSI:EX
Subject: Roberts Bank Terminal 2 Environmental Assessments

Good afternoon colleagues,

As you may be aware, the proposed Roberts Bank Terminal 2 (RBT2) project requires both provincial and federal environmental assessments (EA). Yesterday, the newly appointed federal panel conducting the federal environmental assessment sent you a letter directing a response by June 24, 2016. I am proposing that the EAO respond on behalf of all provincial agencies.

The intent of this email is to communicate the provincial approach and describe how EAO will support your ministry in participating in the EAs for this proposed project. Please note that this is time sensitive as the federal panel will be publicly posting its letter to you shortly.

Provincial Approach:

In 2014, BC determined that it would apply the principle of "one project, one environmental assessment" to the provincial EA for this project, and in doing so, would rely principally on an anticipated federal panel review to obtain the key information needed to complete the provincial EA. To that end, on December 19, 2014, the Provincial Minister of Environment issued an Order under the Environmental Assessment Act that set out the scope, procedures and methods for the provincial Environmental Assessment of the proposed Roberts Bank Terminal 2 (RBT2) project (see link below).

Federal Panel and implications for ministries:

The federal panel was established on May 31, 2016 and yesterday proceeded to send a directive out to provincial and federal agencies. The Panel's mandate, authorities, as well as the procedures and timelines for the review are detailed in their Terms of Reference which is linked below.

Note that this is a federal-only review panel under the Canadian Environmental Assessment Act, 2012 which requires Panel members fulfill its mandate within 14 months including:

- Stage 1- Sufficiency review of the EIS (Provincial input required)
- Stage 2- Conduct a public hearing (provincial input may be required)
- Stage 3- Prepare and submit a report to the Minister

The panel may subpoena provincial agencies to participate, should the Panel determine the need for input. Through the Province's commitment to "one process" EAO will support a coordinated provincial response to the recent request as well as support effective ministry participation in the

federal panel review itself.

Once the panel has concluded its process, I have (as the Executive Director under the *Environmental Assessment Act*) 5 months to consider the information provided by the panel to inform my recommendation to the provincial accountable Ministers (Environment and Transportation). While this may require additional provincial review our aim is to ensure provincial interests are met through the federal panel review.

Immediate Response to Panel Requirements:

EAO will lead the development of a provincial response to the letter you received, and will work with your staff to support a coordinated, provincial approach throughout the federal panel process. I have asked Michelle Carr, ADM of EA Operations to reach out to the relevant ADMs in your ministries to provide more details on this time sensitive provincial response as well as the approach to the EA. In the interim, please find further detail below and do not hesitate to contact me with any questions or concerns.

With best regards,

Kevin.

Link to federal review panel TOR: http://www.ceaa-acee.gc.ca/050/documents/p80054/101301E.pdf

Link to provincial procedures:
http://a100.gov.bc.ca/appsdata/epic/html/deploy/epic_document_410_38481.html

Key components of the Provincial order:

- RBT2 is reviewable under the Reviewable Project Regulation, since the proposed RBT2 is a new marine port facility that involves dredging and filing of more than two hectares of submerged land.
- The Federal Minister of Environment and Minister Responsible for the Canadian Environmental Assessment Agency announced on January 7, 2014 the referral of the proposed RBT2 project for an environmental assessment by an independent federal review panel.
- On January 7, 2014, the Canadian Environmental Assessment Agency issued Guidelines for the Preparation of an Environmental Impact Statement, outlining the information which must be provided by the Proponent (the Vancouver Fraser Port Authority) to enable an environmental assessment of the proposed RBT2.
- Through the course of the federal panel process sufficient information for the provincial assessment of the proposed Project may be produced through the Environmental Impact Statement, the review and comments provided by government agencies, Aboriginal Groups, interested parties and experts, the general public, and the Panel Report.
- The Province will rely principally on the federal review panel environmental assessment of the proposed RBT2 project for the information needed for the assessment.

Kevin Jardine
Associate Deputy Minister
Environmental Assessment Office
Ministry of Environment
Government of British Columbia
TEL: 250-356-7478
MOB & TXT: 250-361-6753

email_signature

This e-mail is intended only for the person to whom it is addressed (the "addressee") and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use that a person other than the addressee makes of this communication is prohibited and any reliance or decisions made based on it, are the responsibility of such person. We accept no responsibility for any loss or damages suffered by any person other than the addressee as a result of decisions made or actions taken based on this communication or otherwise. If you received this in error, please contact the sender and destroy all copies of this e-mail.

From:	Grace, David H EAO:EX
To:	Haines, Kate EAO:EX; Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc:	Perry, Monica EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject:	RE: Roberts Bank Terminal 2 - EAO coordinated response
Date:	Monday, June 27, 2016 6:56:38 PM
Attachments:	RBT2 - All Presentations.pdf RBT2 GoC presentations.pdf image002.jpg image003.jpg

For the orientation session tomorrow please find attached a pdf containing the Provincial presentations and a second pdf of Federal presentations.

Regards,
David

David Grace
Project Assessment Manager
BC Environmental Assessment Office

Tel: 250-387-1417
Cell: 250-818-7485
David.Grace@gov.bc.ca

email_signature

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 9:54 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

Further to my note this morning, the draft agenda for tomorrow has been posted to the CEA registry:

http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

If you wish to be added to the panel's distribution list to receive updates, you may provide your name and email address to Panel.RBT2@ceaa.gc.ca.

From: Haines, Kate EAO:EX

Sent: Monday, June 27, 2016 8:13 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: RE: Roberts Bank Terminal 2 - EAO coordinated response

Resending with both attachments – not sure what sort of hiccup happened there with outlook.

From: Haines, Kate EAO:EX
Sent: Monday, June 27, 2016 8:09 AM
To: Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J FLNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject: Roberts Bank Terminal 2 - EAO coordinated response

Good morning, I am sending this note to all those who have been identified as presenters for the RBT2 panel orientation session tomorrow in Vancouver, and to those who have been identified as go-forward contacts for the panel. I would like to make sure everyone is fully up to date on communications that went out last week, as I know there have been emails going back and forth at the DM, ADM and staff level.

Attached is an email with two letters that Kevin Jardine (Associate Deputy Minister of EAO) sent to the panel last week, and his cover messages to the deputies who received the letters form the panel. These emails and letters provide information on EAO's coordinating role for provincial panel participants, and also provide the information requested in the June 9, 2016, from the panel chair. Also attached is a note sent to presenters on Friday giving a few more details about preparing for the orientation session tomorrow.

For those who are presenting or supporting presenters, I would like to highlight that **PowerPoint presentations are due to the panel no later than noon today**, to be sent directly to Panel.RBT2@ceaa.gc.ca. Please follow up with me, David Grace or Monica Perry if you have any questions.

Also please note that while EAO provided a coordinated provincial response to the June 9 letter to deputies from the panel, for agencies not attending tomorrow, you may want to respond to the panel request directly by letting them know you will not be there (June 12, 2016 follow up letter to provincial Deputy Ministers).

Thanks,

Kate

--

Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From:	Tombs, Joanna EAO:EX
To:	Cousins, Autumn EAO:EX
Cc:	Perry, Monica EAO:EX; Hubert, Edwin EAO:EX; Rennert-May, Leya EAO:EX
Subject:	RE: Terminal A Extension Project - RTA"s Certificate #T15-01 - request for haz waste sediment removal - seeking Compliance"s thoughts
Date:	Wednesday, June 29, 2016 1:39:55 PM

Hello,
I am just following up with you to enquire if you've had the opportunity to review the memo from Rio Tinto Alcan, and provide comments yet.

Thank you
Joanna

From: Cousins, Autumn EAO:EX
Sent: Wednesday, June 22, 2016 6:12 PM
To: Tombs, Joanna EAO:EX
Cc: Perry, Monica EAO:EX; Hubert, Edwin EAO:EX
Subject: Re: Terminal A Extension Project - RTA's Certificate #T15-01 - request for haz waste sediment removal - seeking Compliance's thoughts

Hi Joanna
Thanks for getting in touch. We will review and will let you know our thoughts.
Leya please bf for Friday for me.

Sent from my iPhone

On Jun 21, 2016, at 4:17 PM, Tombs, Joanna EAO:EX <Joanna.Tombs@gov.bc.ca> wrote:

> Autumn,
>
> EAO received a memo, attached, from Rio Tinto Alcan (RTA) notifying EAO that they wish to undertake the removal of hazardous waste (sediment) from 4 areas (see figure attached) within the dredge pocket/area, in advance of construction activities for the Terminal A Extension Project. Monica suggested I seek Compliance & Enforcement's advice as to whether an amendment to the Certificate (issued Dec 2015) is required in order for RTA to undertake the dredging to remove the hazardous waste, or another type of authorization would be required. The Project includes marine dredging activities in the Certified Dredge Area (Certified Project Description attached). Further, a marine water management and monitoring plan is required prior to construction within the Certified Dredge Area (Condition 5 of the TOC, attached to the Certificate):
>
> > The Holder must provide the draft plan to EAO for review a minimum of 60 days prior to the Holder's planned date to commence Construction in the Certified Dredge Area.
> >
> > The Holder must not commence Construction in the Certified Dredge Area until the plan is approved by EAO. The Holder must also provide the approved plan to MOE, NH, EC and Haisla Nation.

The Holder must implement the plan throughout Construction in the Certified Dredge Area.

I have attached the Certificate and TOC for your reference.

Please note that RTA advised EAO that they intend to submit their management plans, a requirement of the Certificate, by the end of June 2016. I am not sure if this still RTA's intention.

I would appreciate your thoughts on the attached memo and how EAO might reply to RTA's request to undertake dredging in advance of construction of the Terminal A Extension Project. If possible, I would appreciate your thoughts by June 28, to enable me to reply to Katja Otting, RTA on next steps, before end of day Wednesday, June 29.

If you wish to discuss further, I am in the office until noon on Thursday, this week, and Monday to Thursday of the following week.

Thank you in advance,
Joanna

Joanna Tombs
Project Assessment Officer
250-387-2408
Joanna.Tombs@gov.bc.ca
cid:image001.jpg@01D1B59B.15BBE9D0

From: Otting, Katja (TI) [mailto:Katja.Otting@riotinto.com]
Sent: Thursday, June 16, 2016 12:38 PM
To: Tombs, Joanna EAO:EX
Cc: Henning, Paul (RTA); Dryden, Ian (TI)
Subject: Rio Tinto EAC #T15-01 - haz waste sediment removal

Hi Joanna,

As discussed, attached is the memo request to remove the hazardous waste level sediment from the dredge pocket with an outline of the regulatory process that Rio Tinto expects to follow.
I will call you next week to discuss further requirements.

Thanks,

Regards,

Katja Otting
Senior Advisor, Environment
Project Development and Studies, Primary Metal

Rio Tinto Aluminium
Suite #354-200 Granville St, Vancouver, B.C. V6C 1S4, Canada

T: 1.604.687.0305 ext. 304 M: 1.778.875.8853
katja.otting@riotinto.com www.riotinto.com

<16 june 2016 dredge amendment.pdf>

<Figure1.pdf>

<Terminal A Environmental Assessment Certificate_signed.pdf>

<Terminal A Draft Table of Conditions Final.pdf>

<Terminal A - CPD November 20 FINAL.pdf>

From: Grace, David H EAO:EX
To: Perry, Monica EAO:EX
Subject: Re: The Secrets of the Sales Grandmasters
Date: Tuesday, June 28, 2016 6:17:08 PM

I have a vague recollection - looks familiar.

Sent from my Samsung Galaxy smartphone.

-------- Original message --------
From: "Perry, Monica EAO:EX" <Monica.Perry@gov.bc.ca>
Date: 2016-06-28 5:54 PM (GMT-08:00)
To: "Grace, David H EAO:EX" <David.Grace@gov.bc.ca>
Subject: Fwd: The Secrets of the Sales Grandmasters

Mike Lipkin. Do you remember him?

Sent from my iPhone

Begin forwarded message:

> **From:** Mike Lipkin <mike.lipkin@environics.ca>
> **Date:** June 28, 2016 at 4:02:27 AM PDT
> **To:** monica.perry@gov.bc.ca
> **Subject: The Secrets of the Sales Grandmasters**
> **Reply-To:** mike.lipkin@environics.ca
>
> Copyright

Page 3306 to/à Page 3307

Withheld pursuant to/removed as

Copyright

From: Haines, Kate EAO:EX
To: "Myles,Debra [CEAA]"; panel.RBT2@ceaa.gc.ca; Joseph.Ronzio@ceaa-acee.gc.ca
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: RE: Undertaking - BCEAO section 14 order
Date: Wednesday, June 29, 2016 11:38:03 AM
Attachments: image001.jpg

Thank you, I understand the purpose was to put it on the registry. Am I to understand that in the future these types of responses to undertakings should be attached directly to an email rather than linked to a publically available document?

Thanks

Kate

From: Myles,Debra [CEAA] [mailto:Debra.Myles@ceaa-acee.gc.ca]
Sent: Wednesday, June 29, 2016 11:28 AM
To: Haines, Kate EAO:EX; panel.RBT2@ceaa.gc.ca; Joseph.Ronzio@ceaa-acee.gc.ca
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Re: Undertaking - BCEAO section 14 order

Thank you Kate. For you info, we do have this link, of course, but the Panel requested the document yesterday to bring in on to the environmental assessment record. We will have it posted to the Registry.

Regards,
Debra

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Haines, Kate EAO:EX
Sent: Wednesday, June 29, 2016 8:55 AM
To: 'panel.RBT2@ceaa.gc.ca'; Ronzio,Joseph [CEAA] <Joseph.Ronzio@ceaa-acee.gc.ca> (Joseph.Ronzio@ceaa-acee.gc.ca); Debra.Myles@ceaa-acee.gc.ca
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Undertaking - BCEAO section 14 order

Good morning,

Our section 14 order is located on our website at this link:

http://a100.gov.bc.ca/appsdata/epic/html/deploy/epic_document_410_38481.html

Thanks,

Kate

--
Kate Haines

Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Myles,Debra [CEAA]
To: Haines, Kate EAO:EX; panel.RBT2@ceaa.gc.ca; Joseph.Ronzio@ceaa-acee.gc.ca
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Re: Undertaking - BCEAO section 14 order
Date: Wednesday, June 29, 2016 11:28:50 AM
Attachments: image001.jpg

Thank you Kate. For you info, we do have this link, of course, but the Panel requested the document yesterday to bring in on to the environmental assessment record. We will have it posted to the Registry.

Regards,
Debra

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Haines, Kate EAO:EX
Sent: Wednesday, June 29, 2016 8:55 AM
To: 'panel.RBT2@ceaa.gc.ca'; Ronzio,Joseph [CEAA] <Joseph.Ronzio@ceaa-acee.gc.ca> (Joseph.Ronzio@ceaa-acee.gc.ca); Debra.Myles@ceaa-acee.gc.ca
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Undertaking - BCEAO section 14 order

Good morning,

Our section 14 order is located on our website at this link:

http://a100.gov.bc.ca/appsdata/epic/html/deploy/epic_document_410_38481.html

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Myles,Debra [CEAA]
To: Haines, Kate EAO:EX; panel.RBT2@ceaa.gc.ca; Joseph.Ronzio@ceaa-acee.gc.ca
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Re: Undertaking - BCEAO section 14 order
Date: Wednesday, June 29, 2016 12:44:47 PM
Attachments: image001.jpg

Attaching would be fine for next time but not necessary for the Order. Thanks again,
Debra

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Haines, Kate EAO:EX
Sent: Wednesday, June 29, 2016 11:39 AM
To: 'Myles,Debra [CEAA]'; panel.RBT2@ceaa.gc.ca; Joseph.Ronzio@ceaa-acee.gc.ca
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: RE: Undertaking - BCEAO section 14 order

Thank you, I understand the purpose was to put it on the registry. Am I to understand that in the future these types of responses to undertakings should be attached directly to an email rather than linked to a publically available document?

Thanks

Kate

From: Myles,Debra [CEAA] [mailto:Debra.Myles@ceaa-acee.gc.ca]
Sent: Wednesday, June 29, 2016 11:28 AM
To: Haines, Kate EAO:EX; panel.RBT2@ceaa.gc.ca; Joseph.Ronzio@ceaa-acee.gc.ca
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Re: Undertaking - BCEAO section 14 order

Thank you Kate. For you info, we do have this link, of course, but the Panel requested the document yesterday to bring in on to the environmental assessment record. We will have it posted to the Registry.

Regards,
Debra

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Haines, Kate EAO:EX
Sent: Wednesday, June 29, 2016 8:55 AM
To: 'panel.RBT2@ceaa.gc.ca'; Ronzio,Joseph [CEAA] <Joseph.Ronzio@ceaa-acee.gc.ca> (Joseph.Ronzio@ceaa-acee.gc.ca); Debra.Myles@ceaa-acee.gc.ca
Cc: Perry, Monica EAO:EX; Grace, David H EAO:EX
Subject: Undertaking - BCEAO section 14 order

Good morning,

Our section 14 order is located on our website at this link:

http://a100.gov.bc.ca/appsdata/epic/html/deploy/epic_document_410_38481.html

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



From: Perry, Monica EAO:EX
To: Bailey, Scott EAO:EX
Subject: RE: UPDATE: Hold the date-Thursday June 30 s.22
Date: Monday, June 27, 2016 1:38:00 PM

Thanks. I plan on attending. MP

From: Bailey, Scott EAO:EX
Sent: Monday, June 27, 2016 1:34 PM
To: EAO Staff - All
Subject: UPDATE: Hold the date-Thursday June 30 s.22

Sorry all, owing to a few reasons, we have to change this plan. Apologies!

The new plan is to have lunch on Monday July 4 at Masala Bites. We need to get in a bit early as they don't take reservations – plan for 1130 if possible.

Let me know if you plan to attend so we can organize tables accordingly.

Thanks,
Scott

From: Bailey, Scott EAO:EX
Sent: Thursday, June 23, 2016 9:36 PM
To: EAO Staff - All
Subject: Hold the date-Thursday June 30 s.22

All,

Please join to : s.22 - next Thursday after work.

The working plan is to have some nibblies on the 4th floor deck. We will hope for sun! Perhaps we will head out afterwards.

Let me know if you plan to come, and if you can bring a little nosh.

Thanks,
Scott

Sent from my Windows Phone

From: Perry, Monica EAO:EX
To: Waters, Cory EAO:EX
Subject: regional workshops

Quick chat

From: Pizarro, Kirsten EAO:EX
To: EAO Executive Project Directors; EAO Managers; Carr, Michelle EAO:EX
Subject: REQUEST: Agenda items for CEAA/EAO call next Tuesday
Date: Tuesday, June 28, 2016 9:25:18 AM
Attachments: image001.jpg

Good morning,

If you have any items you would like added to the agenda for the call with Lisa Walls (CEAA) next Tuesday please send to me with a couple of bullets (if needed) before end of day Thursday.

Thank you.

Kirsten Pizarro

Program and Project Assistant
Policy and Quality Assurance
Environmental Assessment Office
1st Floor, 836 Yates Street, Victoria BC V8W 1L8
Tel: 250 387-0131
Fax: 250 387-2208
Email: Kirsten.Pizarro@gov.bc.ca

email_signature



Please consider the environment before printing this email.

From: Fenton, Chrystal EAO:EX
To: EAO EA Operations Staff
Subject: Request - Ops Div meeting agenda items
Date: Monday, June 27, 2016 12:24:32 PM
Attachments: image002.jpg

Good afternoon,

Our next Operations Division meeting is on Wednesday July 6th, if you have any suggestions for agenda items please send them to me before Noon on Thursday, June 30th.

I am also seeking a volunteer to chair the meeting.

Thank you

Chrystal Fenton | Executive Administrative Assistant
Environmental Assessment Operations, Environmental Assessment Office
Phone: 250-387-9408

email_signature



From:	Haines, Kate EAO:EX
To:	Zacharias, Mark ENV:EX; Faganello, Tara CSCD:EX; Paget, Gary CSCD:EX; Gow, Lisa A TRAN:EX; Lesiuk, Tim ENV:EX; Fradley, Adria N ENV:EX; Higgs, Jeremy JTST:EX; Haberl, Kevin J ELNR:EX; Lambert, Tim HLTH:EX; McGuire, Jennifer ENV:EX; Mueller, Brent CSCD:EX; Carsen, Dannie CSCD:EX; Kislock, Lindsay M TRAN:EX; Parkes, Norm E TRAN:EX; Lightbody, Ian TRAN:EX; Laaksonen-Craig, Susanna ENV:EX; Nash, Laurel ABR:EX; Puggioni, Giovanni ABR:EX; Geesing, Dieter AGRI:EX; Medgyesi, Mark S SDSI:EX
Cc:	Perry, Monica EAO:EX; Grace, David H EAO:EX; Fenton, Chrystal EAO:EX; Carr, Michelle EAO:EX
Subject:	Roberts Bank Terminal 2 - EAO coordinated response
Date:	Monday, June 27, 2016 8:09:27 AM
Attachments:	RBT2 Panel presentations - update from EAO.msg image002.jpg image003.jpg

Good morning, I am sending this note to all those who have been identified as presenters for the RBT2 panel orientation session tomorrow in Vancouver, and to those who have been identified as go-forward contacts for the panel. I would like to make sure everyone is fully up to date on communications that went out last week, as I know there have been emails going back and forth at the DM, ADM and staff level.

Attached is an email with two letters that Kevin Jardine (Associate Deputy Minister of EAO) sent to the panel last week, and his cover messages to the deputies who received the letters form the panel. These emails and letters provide information on EAO's coordinating role for provincial panel participants, and also provide the information requested in the June 9, 2016, from the panel chair. Also attached is a note sent to presenters on Friday giving a few more details about preparing for the orientation session tomorrow.

For those who are presenting or supporting presenters, I would like to highlight that **PowerPoint presentations are due to the panel no later than noon today**, to be sent directly to Panel.RBT2@ceaa.gc.ca. Please follow up with me, David Grace or Monica Perry if you have any questions.

Also please note that while EAO provided a coordinated provincial response to the June 9 letter to deputies from the panel, for agencies not attending tomorrow, you may want to respond to the panel request directly by letting them know you will not be there (June 12, 2016 follow up letter to provincial Deputy Ministers).

Thanks,

Kate

--
Kate Haines
Project Assessment Manager
250-387-2174
Kate.Haines@gov.bc.ca



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Withheld pursuant to/removed as

DUPLICATE

From: Perry, Monica EAO:EX
To: Haines, Kate EAO:EX
Subject: FW: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d"examen, Projet du Terminal 2 à Roberts Bank - séance d"orientation
Date: Friday, June 24, 2016 12:52:14 PM

Kate, we should include this email. It has the draft schedule from the panel

-----Original Message-----
From: Myles,Debra [CEAA] [mailto:Debra.Myles@ceaa-acee.gc.ca]
Sent: Friday, June 24, 2016 7:25 AM
To: Panel.RBT2@ceaa.gc.ca
Subject: Review Panel, Roberts Bank Terminal 2 Project - Orientation Session // Commission d'examen, Projet du Terminal 2 à Roberts Bank - séance d'orientation

Orientation Session
The Review Panel invites the public to attend, or observe via webcast, an orientation session where information will be provided by federal and provincial bodies that have a mandate and expertise in relation to the proposed Project and its potential environmental effects. The Project Proponent, the Vancouver Fraser Port Authority, will provide an overview of its responsibilities as they relate to marine activities. Although participants and the public will not have an opportunity to ask questions during the session, follow-up questions may be sent to the Panel for its consideration.
The Review Panel intends to provide a live webcast of the orientation session and to archive the video recording. A transcript of the proceedings will be posted on the Registry following the session. The orientation session will be held on Tuesday, June 28, 2016 from 9:00 am - 5:00 pm local time at Simon Fraser University - Segal Building, 500 Granville Street, Vancouver.
Please access the webcast at: http://events.xelivebroadcast.com/events/june28robertsbankterminal2/

The webcast viewing instructions are available at: http://xelivebroadcast.com/instructions/

The draft schedule for the orientation session is posted on the Registry at: http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

Séance d'orientation
La Commission d'examen invite le public à assister en personne ou par diffusion Web à une séance d'orientation au cours de laquelle des renseignements seront fournis par les organismes gouvernementaux fédéraux et provinciaux qui disposent du mandat et de l'expertise nécessaires relativement au projet proposé et à ses effets environnementaux potentiels. Le promoteur du projet, l'Administration portuaire Vancouver-Fraser, fournira un aperçu de ses responsabilités en ce qui concerne les activités maritimes. Bien que les participants et le public n'auront pas la possibilité de poser des questions au cours de la séance, des questions pourront être acheminées ultérieurement à la Commission pour examen.
La Commission d'examen souhaite offrir une webdiffusion en direct de la séance d'orientation et archiver l'enregistrement vidéo. Une transcription des procédures sera publiée dans le Registre après la séance. La séance d'orientation se tiendra mardi le 28 juin de 9 h à 17 h, heure locale, à l'Université Simon Fraser - Édifice Segal, 500, rue Granville, Vancouver.
Si vous plait suivez la webdiffusion à l'adresse Internet suivante :
http://events.xelivebroadcast.com/events/june28robertsbankterminal2/
L'instructions de la webdiffusion sont disponible à: http://xelivebroadcast.com/instructions/

Le horaire ébauche de la session d'orientation est affiché sur le Registre à: http://ceaa-acee.gc.ca/050/documents/p80054/114746E.pdf

Review Panel Secretariat, Roberts Bank Terminal 2 Project | Secrétariat de la commission d'examen, Projet du Terminal 2 à Roberts Bank c/o Canadian Environmental Assessment Agency | a/s de l'Agence canadienne d'évaluation environnementale 22nd Floor, 160 Elgin St. Ottawa ON K1A 0H3 | 160, rue Elgin, 22ième étage, Ottawa ON K1A 0H3 Panel.RBT2@ceaa.gc.ca / Commission.RBT2@acee.gc.ca
Tel: 613-957-0626 / toll free 1-866-582-1884 | Tél. : 613-957-0626 / sans frais: 1-866-582-1884

From: Perry, Monica EAO:EX
To: Scraba, Erin H EAO:EX; Craven, Paul EAO:EX
Subject: Section 6 Public Guidance
Date: Wednesday, June 29, 2016 5:55:00 PM
Attachments: image001.png

Erin and Paul, do we have updated guidance for Section 6 Requests? I seem to recall seeing something but could not find it on EPIC or on E-Guide (which still has the old guidance). I am responding to a member of the public (who would like to see the City of Comox's bank improvement project designated). It is well below threshold and has created quite a stir in the community as the City went forward without a permit. They are in the process of getting a permit now.

I have had a request from a member of the public to consider designating it as reviewable. I have told her I cant, etc. but thought it would be good to point her to some guidance.

Let me know if I am imagining the updated document.

Monica Perry
Executive Project Director, Power and Community Infrastructure
Tel: 250-387-2402 Mobile: 250-208-2507 Fax: 250-387-2208
cid:image001.png@01D10288.102B8370

