From:	Davies, James W FLNR:EX
Sent:	Friday, October 12, 2012 4:30 PM
То:	Butler, Adrienne L EAO:EX
Cc:	Balcaen, Trish L EAO:EX; Shaw, Al P FLNR:EX; Alexander, Garry EAO:EX; Cowgill, Andrea N FLNR:EX;
	Kreye, Ross A FLNR:EX
Subject:	RE: Narrows Inlet Hydro Project: Application review timelines & update
Attachments:	Narrows_Inlet_Hydro_Agency_WSD_12Oct2012.pdf

Adrienne Butler

RE: Narrows Inlet Hydro Project: Application review timelines & update

Allocation comments

James Davies, P.Eng. Regional Hydrologist - Water Allocation MFLNRO - South Coast Region - Authorizations - Water Allocation Tel: (604) 586-5637 FAX: (604) 586-4434 email: James.Davies@gov.bc.ca

From: Butler, Adrienne L EAO:EX Sent: Friday, September 7, 2012 5:22 PM

To: Alexander, Garry EAO:EX; 'Bob.Gowe@tc.gc.ca'; Taylor, Andrew JTI:EX; Carsen, Dannie CSCD:EX; 'Bob.Weston@vch.ca'; Rochetta, Steve J FLNR:EX; Babakaiff, Scott C FLNR:EX; Bronstein, Ron FLNR:EX; 'jpaul@secheltnation.net'; Cowgill, Andrea N FLNR:EX; Wriglesworth, Lindsay I FLNR:EX; 'brent.magee@tc.gc.ca'; 'david.rafael@scrd.ca'; Mayall, Jane EAO:EX; Davies, James W FLNR:EX; Shaw, Al P FLNR:EX; Forgeng, Eric E FLNR:EX; Malt, Joshua FLNR:EX; 'chantal.nessman@dfo-mpo.gc.ca'; 'Adam.Silverstein@dfo-mpo.gc.ca'; Sloos, Hugo FLNR:EX; Barrett, Scott FLNR:EX; 'kboras@secheltnation.net' Cc: Balcaen, Trish L EAO:EX; 'Sid Quinn (<u>SQuinn@SecheltNation.net</u>)' Subject: Narrows Inlet Hydro Project: Application review timelines & update

Hello,

As you know, the Narrows Inlet Hydro Project was accepted for review on September 23, 2012 and the 80-day review timelines has begun. Attached is a draft workplan outlining timelines and key due dates for the 180 day review process for your planning purposes. The dates are rough and will likely be refined somewhat as we move forward.

A few highlights:

- The public comment period began today and will go through October 22nd.
- Open houses have been scheduled for Friday October 12 and 13 in Egmont and Sechelt, respectively.
- A site tour is being scheduled for working group members on October 12. If you are interested in a site tour and haven't already contacted me, please confirm as soon as possible.

Your input on the Application is critical to ensuring the EA process is fair and efficient. Note that your initial comments are also requested by <u>October 12th</u>.

I look forward to seeing many of you in Vancouver at the September 19 working group meeting. Details and agenda for the meeting to follow.

Should you have any questions, please feel free to contact either myself or <u>Trish.Balcaen@gov.bc.ca</u> (250) 387-2445 (acting for Garry Alexander until Oct. 3rd).

FNR-2013-00035

Thank you,

Adrienne Butler

Environmental Assessment Officer B.C. Environmental Assessment Office tel: (250) 387-2413 | fax: (250) 356-7477

Davies, James W FLNR:EX

From: Sent: To:

Cc: Subject: Eichenberger, Kathy EAO:EX Tuesday, March 1, 2011 10:53 AM Davies, James W ENV:EX; Magnan, Alain; Sarfi,Mandy [CEAA]; Peter Schober; dansoprovich Mayall, Jane EAO:EX RE: Proposed Stl'ixwim project

It appears that the morning of Monday the 14th is the only time that works for everyone. Mandy has booked the boardroom at CEAA. Can everyone confirm that they can attend 9:30 -12:00?

From: Davies, James W ENV:EX Sent: Tuesday, March 1, 2011 10:44 AM To: Eichenberger, Kathy EAO:EX; Magnan, Alain; Sarfi,Mandy [CEAA]; Peter Schober; dansoprovich Cc: Mayall, Jane EAO:EX Subject: RE: Proposed Stl'ixwim project

March 14, 15, 16, 17, or 18 is good for me.

James Davies, P.Eng. Regional Hydrologist Ministry of Natural Resource Operations West Coast Region - Authorizations - Water Allocation 2nd Floor - 10470 - 152 Street, Surrey, BC, V3R 0Y3 Tel: (604) 582-5203 FAX: (604) 582-5235 email: James.Davies@gov.bc.ca

From: Eichenberger, Kathy EAO:EX Sent: Monday, February 28, 2011 4:30 PM To: Magnan, Alain; Davies, James W ENV:EX; Sarfi,Mandy [CEAA]; Peter Schober; dansoprovich Cc: Mayall, Jane EAO:EX Subject: FW: Proposed Stl'ixwim project

How about 1:00 pm on Tuesday March 15th?

From: Davies, James W ENV:EX Sent: Monday, February 28, 2011 3:45 PM To: Eichenberger, Kathy EAO:EX Subject: RE: Proposed Sti'ixwim project

Kathy

The week of March 14 is good for me; Monday to Friday.

Jim Davies

From: Eichenberger, Kathy EAO:EX Sent: Monday, February 28, 2011 3:44 PM To: Davies, James W ENV:EX Subject: FW: Proposed Stl'ixwim project

Hi James - are there any days in the week of March 14 that you could make it?

From: Magnan, Alain [mailto:Alain.Magnan@dfo-mpo.gc.ca] Sent: Monday, February 28, 2011 1:33 PM To: Eichenberger, Kathy EAO:EX Subject: RE: Proposed Sti^lixwim project

Kathy, so far the week of march 7th and 14th are available, except for Thursday on both of those weeks.

Al

From: Eichenberger, Kathy EAO:EX [mailto:Kathy.Eichenberger@gov.bc.ca] Sent: 2011–February-24 2:36 PM To: Magnan, Alain; Davies, James W ENV:EX; dansoprovich; Peter Schober; Sarfi,Mandy [CEAA] Cc: Mayall, Jane EAO:EX Subject: Proposed Stl'ixwim project

Hello all:

I think this would be an opportune time for all of us to meet (and any others who may be able to contribute) to discuss:

- Any changes to the proposed project
- In stream flow requirements
- Status of EA process

Please let me know when you would be avaibale in March. I propose a Vancouver meeting with teleconference for those who can't make it in person.

Thanks.

Kathy Eichenberger P. Eng. Project Assessment Director Environmental Assessment Office off.: 250 387-7983 ♣ Please consider the environment before printing this email.

1.5

Davies, James W ENV:EX

Subject: Location:	Stl'ixwim Renewable Energy Initiative Project CEAA 1550 Alberni suite 805 Vancouver
Start: End:	Mon 2011-03-14 9:30 AM Mon 2011-03-14 12:00 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer: Required Attendees:	Eichenberger, Kathy EAO:EX Magnan, Alain; Davies, James W ENV:EX; Peter Schober; dansoprovich; Sarfi,Mandy [CEAA]; Smith, Alanya C EAO:EX

When: Monday, March 14, 2011 9:30 AM-12:00 PM (GMT-08:00) Pacific Time (US & Canada). Where: CEAA 1550 Alberni suite 805 Vancouver

Note: The GMT offset above does not reflect daylight saving time adjustments.

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Proposed agenda - please let me know if there are any other agenda items. Also please let me know who else will be attending so that I can provide refreshments:

WHAT IS?

- 1. Project update Proponent 30 minutes
 - a. Change in project design 🛹
 - b. First Nation consultation
- 2. EA Process update EAO and CEAA 30 minutes
 - a. Timing for Application submission
 - b. Enhanced public consultation process
- 3. Fish and fish habitat Proponent/DFO/MNRO 1 hour
 - WHAT IS ? Issue . a. In stream flow requirements 7
 - b. Potential data gaps A WHERE
- 4. Next steps

BURRARD SKYTTRAIN, CONCURRENT OR ? ANUT. SER Page 20 A TRACKNOJ #19, #20 UR- P

Davies, James W ENV:EX

Subject: Location:	Stl'ixwim Renewable Energy Initiative Project CEAA 1550 Alberni suite 805 Vancouver
Start: End:	Mon 2011-03-14 9:30 AM Mon 2011-03-14 12:00 PM
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- 4. Next steps

Davies, James W FLNR:EX

From:	Eichenberger, Kathy EAO:EX
Sent:	Monday, March 14, 2011 4:59 PM
То:	'dansoprovich'; 'Magnan, Alain'; Davies, James W ENV:EX; 'Peter Schober'; Smith, Alanya C EAO:EX
Cc:	'Jennifer Prive'
Subject:	RE: Stl'ixwim Renewable Energy Initiative Project

Thanks Dan;

I agree it was a very fruitful meeting today. We'll hold off on posting the maps until you send us the next version. Cheers

Kathy

From: dansoprovich [mailto:dsop@mymts.net]
Sent: Monday, March 14, 2011 2:24 PM
To: Eichenberger, Kathy EAO:EX; Magnan, Alain; Davies, James W ENV:EX; Peter Schober; Smith, Alanya C EAO:EX
Cc: Jennifer Prive
Subject: Re: Stl'ixwim Renewable Energy Initiative Project

Kathy et al.

Thanks a lot for the meeting today. Relative to the maps that I had sent on, that you were going to put onto your sharepoint site, we picked up some errors in those maps, including that the maps did not have the IFR pipes for both of CC and Ramona Upper. So, if you want to hold off til rectified, I could send you the updated maps. Let me know.

Cheers, dan

----- Original Message -----From: <u>Eichenberger, Kathy EAO:EX</u> To: <u>Magnan, Alain</u>; <u>Davies, James W ENV:EX</u>; <u>Peter Schober</u>; <u>dansoprovich</u>; <u>Sarfi,Mandy [CEAA]</u>; <u>Smith, Alanya C</u> <u>EAO:EX</u> Sent: Tuesday, March 01, 2011 6:19 PM Subject: Stl'ixwim Renewable Energy Initiative Project

When: Monday, March 14, 2011 9:30 AM-12:00 PM (GMT-08:00) Pacific Time (US & Canada).

Where: CEAA 1550 Alberni suite 805 Vancouver

Note: The GMT offset above does not reflect daylight saving time adjustments.

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- 3. Fish and fish habitat Proponent/DFO/MNRO 1 hour

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- a. In stream flow requirements
- b. Potential data gaps
- 4. Next steps

From: Stoddard, Erin M ENV:EX
Sent: Wednesday, March 30, 2011 12:22 PM
To: Davies, James W ENV:EX
Cc: Barrett, Scott ENV:EX; Bennett, Timothy A ENV:EX; Cowgili, Andrea N ILMB:EX; Blacquiere, Kelly ILMB:EX; Babakaiff, Scott C ENV:EX
Subject: RE: Stl'ixwim Renewable Energy Initiative Project - upcoming Fish Working Group meeting in April 2011
Importance: High

Jim,

Any news on a proposed April meeting for this yet? My April is filling up fast and Scott is only here for a couple more weeks, and then gone until early June.

Thanks.

Erin

From: Davies, James W ENV:EX Sent: Monday, March 14, 2011 4:28 PM To: Stoddard, Erin M ENV:EX; Babakaiff, Scott C ENV:EX Cc: Barrett, Scott ENV:EX; Bennett, Timothy A ENV:EX; Cowgill, Andrea N ILMB:EX; Blacquiere, Kelly ILMB:EX Subject: RE: Stl'ixwim Renewable Energy Initiative Project - upcoming Fish Working Group meeting in April 2011

Erin Stoddard Scott Babakaiff

RE: Stl'ixwim Renewable Energy Initiative Project - upcoming Fish Working Group meeting in April 2011

At today's meeting, March 14, the proponent presented the changes to the plan.

(next step) A Fisheries Working Group meeting is planned for April 2011; we expect that both of you will be invited to this meeting.

The proponent's presentation touch briefly on issues of obtaining access to a stream, and the lost of monitoring sensors.

There may be completeness issues on some streams; in that they were only able to assessed a relatively small portion of a stream.

The proponent intends to submit his application in May 2011 or June 2011, depending on the issues from the Fisheries Working Group.

When I find out about the date of the April Fisheries Working Group meeting, I will forward this information to you.

James Davies, P.Eng. Regional Hydrologist Ministry of Natural Resource Operations West Coast Region - Authorizations - Water Allocation 2nd Floor - 10470 - 152 Street, Surrey, BC, V3R 0Y3 Tel: (604) 582-5203 FAX: (604) 582-5235 email: James.Davies@gov.bc.ca From: Stoddard, Erin M ENV:EX
Sent: Tuesday, March 8, 2011 5:34 PM
To: Davies, James W ENV:EX
Cc: Babakaiff, Scott C ENV:EX; Barrett, Scott ENV:EX; Bennett, Timothy A ENV:EX
Subject: RE: Stl'ixwim Renewable Energy Initiative Project

Jim,

I am already fully booked that day on another high priority file (Fraser Gravel long term planning), so I'm unable to attend. I get booked up far in advance of most meetings, and am now close to being fully booked for this month. I'm very concerned that we are hearing of this meeting so late from EAO. Two weeks prior is not enough notice, especially when it has been requested by others that we attend. I suggest that discussion with respect to fish and fish habitat issues, related flow diversion discussions (IFR, etc.) and data gaps be delayed until Scott and/or I can attend. If there are design changes then we need to see a document describing those changes at least 5 working days prior to the meeting so that we have a chance to review and speak to the information. Also, I didn't see anything on wildlife below. Is the proponent addressing wildlife, if not, then why? Someone else from Ecosystems should be addressing this as well.

Please let me know if the meeting is rescheduled or if you would like to discuss any of the above.

Thanks.

Erin

From: Davies, James W ENV:EX Sent: Monday, March 7, 2011 8:45 AM To: Stoddard, Erin M ENV:EX Subject: FW: Stl'ixwim Renewable Energy Initiative Project

Erin Stoddard

FW: Stl'ixwim Renewable Energy Initiative Project

I will be attending this March 14, 2011 meeting.

Apart from a vague design change, I do not know the specifics of the changes.

Scott Babakaiff has indicated he is not available.

Are you available for this meeting?

Thanks

James Davies, P.Eng. Regional Hydrologist Ministry of Natural Resource Operations West Coast Region - Authorizations - Water Allocation 2nd Floor - 10470 - 152 Street, Surrey, BC, V3R 0Y3 Tel: (604) 582-5203 FAX: (604) 582-5235 email: James.Davies@gov.bc.ca

From: dansoprovich [mailto:dsop@mymts.net] Sent: Friday, March 4, 2011 1:05 PM **To:** Eichenberger, Kathy EAO:EX; Magnan, Alain; Davies, James W ENV:EX; Peter Schober; dansoprovich; Sarfi,Mandy [CEAA]; Smith, Alanya C EAO:EX **Subject:** Re: Stl'ixwim Renewable Energy Initiative Project

Thanks Kathy.

We were hoping/expecting that Erin Stoddard and Scott Babakaiff would be in attendence given the important technical matters related to fisheries and aquatics. Will that be the case?

Thanks, dan

----- Original Message -----From: Elchenberger, Kathy EAO:EX To: Magnan, Alain ; Davies, James W ENV:EX ; Peter Schober ; dansoprovich ; Sarfi,Mandy [CEAA] ; Smith, Alanya C EAO:EX Sent: Tuesday, March 01, 2011 5:19 PM Subject: Stl'ixwim Renewable Energy Initiative Project

When: Monday, March 14, 2011 9:30 AM-12:00 PM (GMT-08:00) Pacific Time (US & Canada).

Where: CEAA 1550 Alberni suite 805 Vancouver

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Proposed agenda - please let me know if there are any other agenda items. Also please let me know who else will be attending so that I can provide refreshments:

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- a. In stream flow requirements
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- 4. Next steps

Davies, James W FLNR:EX

From: Sent: To: Subject: Davies, James W ENV:EX Wednesday, April 6, 2011 10:37 AM Eichenberger, Kathy EAO:EX RE: Stl'ixwim Renewable Energy Initiative Project - fisheries sub-committee

Kathy Eichenberger

I am ok in not attending this meeting; Babakaiff and Stoddard will be in attendance.

A concern is changes to the plan were verbally presented and discussed at the March 14, 2011 meeting, but I (and others) have not seen updated drawings.

James Davies, P.Eng. Regional Hydrologist Ministry of Forests, Lands and Natural Resource Operations South Coast Region - Authorizations - Water Allocation 2nd Floor - 10470 - 152 Street, Surrey, BC, V3R 0Y3 Tel: (604) 582-5203 FAX: (604) 582-5235 email: James.Davies@gov.bc.ca

From: Eichenberger, Kathy EAO:EX Sent: Wednesday, April 6, 2011 10:29 AM To: Davies, James W ENV:EX Subject: RE: Stl'ixwim Renewable Energy Initiative Project - fisheries sub-committee

Hi Jim:

I agree we need a full day. Scott and Erin have accepted the 20^{th} – is it ok to proceed without you?

----Original Appointment----From: Davies, James W ENV:EX
Sent: Wednesday, April 6, 2011 9:03 AM
To: Eichenberger, Kathy EAO:EX
Cc: Stoddard, Erin M ENV:EX; Babakaiff, Scott C ENV:EX
Subject: Declined: Stl'ixwim Renewable Energy Initiative Project - fisheries sub-committee
When: Tuesday, April 19, 2011 12:00 AM to Wednesday, April 20, 2011 12:00 AM (GMT-08:00) Pacific Time (US & Canada).
Where: Vancouver

Kathy Eichenberger

Davies declined: Stl'ixwim Renewable Energy Initiative Project - fisheries sub-committee s.22

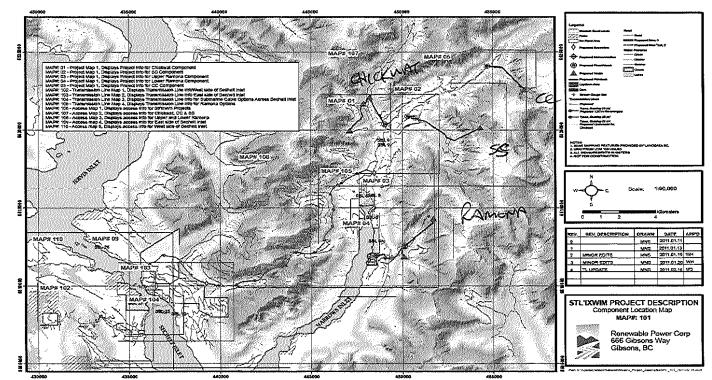
Given the proposed timelines and importance of fisheries information, I do not agree that a half-day is enough time to present the information and discuss the issues.

In order that Mr. Babakaiff and Mr. Stoddard are prepared for this fisheries meeting, they are to be provided with the information that will be discussed at the April 19 meeting. I have forwarded an invite to them.

I expect that this fisheries information will be provided to Mr. Babakaiff and Mr. Stoddard by April 8, 2011 – Friday.

James Davies, P.Eng. Regional Hydrologist Ministry of Forests, Lands and Natural Resource Operations South Coast Region - Authorizations - Water Allocation 2nd Floor - 10470 - 152 Street, Surrey, BC, V3R 0Y3 Tel: (604) 582-5203 FAX: (604) 582-5235 email: James.Davies@gov.bc.ca

Stl'ixwim Renewable Energy Initiative Project Changes



This is a high level overview of the changes to the Project since the issuance of the AIR on Oct 19/10. The mapping sent to Kathy and Mandy on Fri, Mar 11/11 is the most current and represents these changes.

Review of Project

Hydroelectric Component Review

- Chickwat Creek run of the river
- SS Creek lake storage
- CC Creek lake storage
- Ramona Creek Upper lake storage
- Ramona Creek Lower combined run of the river/lake storage
- Transmission Line and Access Roads from hydroelectric generation sites to interconnection with BCH (formerly BCTC) line on Sechelt Peninsula, including submarine cable.





No dam – did not provide any additional economic return
 Drawdown scenario: 40m below natural – Drawdown scenario: 40m below scenario: 40m below natural – Drawdown scenario: 40m below scen

- Full by May 20-June 20 until end of July to support amphibian lifecycle
 No IFR – No "ENGINACIÓN" IFR RUT LAGE SPILLS NATURALMY HEAD CARE I
- Lake tunnel has been realigned and doubled in length avoids hazardous rockfall area and results in GWR avoidance
- Alignment of shortened penstock into the powerhouse has changed slightly also no buried – spatial logistics related to existing Tyson powerhouse
- Original 2km of proposed road to construct penstock has now been reduced to ~500m

- (ENGTH

CC Creek

- Drawdown scenario: 5m up (mid-July end of Aug), 45m down
 - IFR is located >1km below the outflow Journel creek
- Lake tunnel is longer and on a different alignment reduces terrain hazards
- Shorter penstock, different alignment across the slope _______ and buried _____reduces terrain hazards and potential impacts on GWR ("suggested by S. Rochetta ... that the lower elevation habitats along CC Creek in this GWR are not likely used by Mountain Goats")
- Original 1.8km of proposed road to construct penstock has now been reduced to 800m.

(A) The creek is 2 2-km Lon

CHECK FOR DEEXPLANATION

Ramona Creek Upper Tunnel tap removed, now floating surface pump - reduces possible impacts to water quality on aquatic resources of here 50 m. IFR is located below outflow Drawdown scenario: 3m up, 45m down Average variation in natural lake level projected 29m to 9m below natural over the course of a year Surface and buried penstock alignment is more direct to powerhouse – reduces terrain hazards PEOTER 5. - MANY YEARS VARE IS BELOW OUTFLOW FLEW.



- R1 Tributary has moved farther upstream and thus the penstock alignment has changed – alignment with terrain
- All but the last 60m of penstock will be buried – improves visuals



Transmission Line

- Point of interconnection with Earle Creek Substation moved ~2km NE – at the request of the landowner, spatial conflict with another land development project ~ WHAT US?
- Submarine cable alignment and length changed – due to available bathymetry Sechelt Peninsula transmission line alignment changed – OGMA avoidance

Options



- Ramona Upper Transmission Line preferred alignment is through Nation land if agreement can be negotiated + 2 alternate alignment options
- Camp locations preferred location at existing barge off-loading site at the Head of the Narrows + 2 alternate location options
- Submarine cable preferred alignment to avoid the Boat Haven but has longer upland section + alternate alignment