P-1

Jennings, Marie

From: Hantush, Mohamed
Sent: Thursday, April 04, 2013 6:19 AM
To: Jennings, Marie
Subject: RE: Leque Documents/Tracking Technical support

Jennings,

I apologize for the late response. I was out of office for all of this week. In order to accommodate other priority tech support tasks and my research projects, I am hoping to complete my review of the report by 4/15.

Thanks,

Mohamed

From: Jennings, Marie
Sent: Wednesday, April 03, 2013 2:38 PM
To: Lynch, Kira; Hantush, Mohamed
Cc: Fleming, Sheila
Subject: RE: Leque Documents/Tracking Technical support

Hi Kira

I sent Mohamed an invite for a conference call tomorrow at 9:00 am Seattle time to discuss the report that I sent a few weeks ago. I haven't heard back yet. However, Mohamed, I am hoping you can make the call.

From: Lynch, Kira
Sent: Wednesday, April 03, 2013 10:28 AM
To: Jennings, Marie; Hantush, Mohamed
Cc: Fleming, Sheila
Subject: FW: Leque Documents/Tracking Technical support

Hi Marie and Mohamed

How is this project support going?

From: Jennings, Marie
Sent: Friday, March 08, 2013 1:11 PM
To: Lynch, Kira; Burden, David; McKernan, John; Barnett, Felicia; LaVay, Maggie; Blank, Valerie
Cc: Fleming, Sheila; Duncan, Bruce
Subject: RE: Leque Documents/Tracking Technical support

Kira

Many thanks! I will contact Mohamed and keep you in the loop.

From: Lynch, Kira
Sent: Tuesday, March 05, 2013 9:21 AM
To: Burden, David; Jennings, Marie; McKernan, John; Barnett, Felicia; LaVay, Maggie; Blank, Valerie
Cc: Fleming, Sheila; Duncan, Bruce
Subject: RE: Leque Documents/Tracking Technical support

Thanks yes it would be nice to be able to broaden the net of resources to help on engineering and hydrogeology types of questions. We will keep you in the loop. One idea would be to have gw technical help from other ORD labs be tracked through the GWTSC and/or on the STL spreadsheet we are working on? I have talked with John about doing something similar for the ETSC to help make sure that the assistance is getting tracked in some way that the labs can take credit and the Regions can recognize the support. Note this is a water project not Superfund so we need to make sure these offices recognize the help too. I just hooked up another water project with some technical support from Malcolm Field another good example of a tech support request we need to track and report. Felicia lets discuss in DC. Kira

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From: Burden, David
Sent: Tuesday, March 05, 2013 9:13 AM
To: Lynch, Kira; Jennings, Marie
Cc: Fleming, Sheila; Duncan, Bruce
Subject: RE: Leque Documents

Kira,

I am glad Mohammed can help. I talked to a couple people here, but everyone's plate is overflowing right now.

Dave

David S. Burden, Ph.D., Director
Ground Water Technical Support Center

U.S. Environmental Protection Agency
National Risk Management Research Laboratory
Ground Water and Ecosystems Restoration Division
Ada, OK

Email: burden.david@epa.gov
Phone: 580-436-8606

"We make a living by what we get.
We make a life by what we give."
-- Sir Winston Churchill

From: Lynch, Kira
Sent: Tuesday, March 05, 2013 10:32 AM
To: Hantush, Mohamed; Jennings, Marie
Cc: Fleming, Sheila; Burden, David; Duncan, Bruce
Subject: RE: Leque Documents

Hi Mohamed

Thanks a lot for being willing to help us on the technical review of this report. Mary I recommend that you contact Mohamed directly to make sure he has all the information he needs and to also give him a USGS contact that he could talk with that is familiar with the project. Please keep me in the loop as we move forward since I am trying to track and make sure that the ORD personell and lab get credit for acting as an important technical resource for the Regions. Kira

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From: Hantush, Mohamed
Sent: Tuesday, March 05, 2013 7:24 AM
To: Lynch, Kira
Subject: RE: Leque Documents

P-3

Hi Kira,

As a follow-up to our phone call, I will be happy to look into the matter and review the report. A significant portion of my research career during my graduate years and earlier EPA career at Ada, OK, and Cincinnati included projects and basic research on numerical and analytical GW and transport and fate modeling with a focus GW-SW interactions. I also have experience with MODFLOW. However, my research over the last 7 years have evolved into ecohydrologic and watershed scale modeling for management of diffuse pollutants and evaluation of BMPs, but with much less focus on groundwater.

Best Regards,

Mohamed

Mohamed M. Hantush, Ph.D
Senior Research Hydrologist
National Risk Management Research Laboratory
U.S. Environmental Protection Agency
26 West martin Luther King Dr.
Cincinnati, OH 45268
Phone: (513) 569-7089
E-mail: hantush.mohamed@epa.gov

From: Lynch, Kira
Sent: Monday, March 04, 2013 4:28 PM
To: Burden, David; Hantush, Mohamed
Cc: Fleming, Sheila; Jennings, Marie
Subject: FW: Leque Documents

Hi Dave

I have spoken with several people in CN to try and find out if they have anyone that could help with this question regarding salt water intrusion.
Hale Thurston has told me that he does not think anyone is doing work in this area and I have not connected with Mohamed Hantush to confirm whether within their work on watershed sustainability they have expertise in this area.
Have you been able to confirm whether or not the GWTSC can provide technical review support for this request? Kira

---

From: Fleming, Sheila
Sent: Tuesday, February 26, 2013 2:07 PM
To: Lynch, Kira
Cc: Jennings, Marie
Subject: FW: Leque Documents

Hi Kira,
Attached are two Leque Island Documents and below is a brief description of the technical support Marie is requesting and the questions she is trying to have answered. There is a push for EPA to make a decision within 30 to 45 days. An analysis of the MODFLOW modeling that was done to determining whether the project will exacerbate the potential for salt water intrusion in this designated sole source aquifer will inform EPA's decision. Thanks for contacting folks in ORD to help on this.
S-

P-4

Sheila Fleming, PE
Risk Evaluation Unit Manager
US EPA Region 10
1200 Sixth Avenue, Suite 900, M/S OEA-095
Seattle, WA 98101-3140

Office: 206-553-1417
Cell: 206-303-8126

From: Jennings, Marie
Sent: Tuesday, February 26, 2013 1:15 PM
To: Fleming, Sheila
Subject: Leque Documents

Hi Sheila

I have attached a summary doc that provides the rationale for the project from the Salmon Recovery Funding Board meeting minutes and a pdf of the report done by the Pacific Groundwater Group. EPA's request to the technical committee is stated below:

EPA wanted wells installed to help determine whether the Davis slough is a discharge point for ground water on the Leque Island side (or a recharge area). The implication as I understand it, is that if it is not a recharge area, then impacts from salt water intrusion is not an issue. Modeling was done to answer this question. Wells were installed to determine the direction of ground water flow between Davis Slough and Camano Island. The Drinking Water program question is whether or not the report does an adequate job of answering these two questions. It's my understanding that if they answered these questions adequately, we can make a determination and conversely, if they didn't we can make a determination.

I have not provided any comments on the report at this point in time. I am hoping ORD is able to free up a hydro within the next 45 days or so. Thanks

P-5

Jennings, Marie

From: Hantush, Mohamed
Sent: Thursday, April 04, 2013 6:21 AM
To: Jennings, Marie
Subject: RE: Leque Documents/Tracking Technical support

Hi Jennings,

I left this out. Lets reschedule the conference call on the week of Monday 15.

Thanks,

Mohamed

From: Jennings, Marie
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P-6

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Sent: Tuesday, March 05, 2013 7:24 AM
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P-7

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Mohamed

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Senior Research Hydrologist
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Sheila Fleming, PE

P-8

Risk Evaluation Unit Manager
US EPA Region 10
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Seattle, WA 98101-3140

Office: 206-553-1417
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I have not provided any comments on the report at this point in time. I am hoping ORD is able to free up a hydro within the next 45 days or so. Thanks

P-9

Jennings, Marie

From: Peter Schwartzman [peter@PGWG.COM]
Sent: Monday, April 15, 2013 12:30 PM
To: Jennings, Marie; Brokaw, Loren (DFW)
Cc: Graham Peters; Link, Russell E (DFW); Hantush, Mohamed
Subject: RE: Leque Island Determination Conference Call proposal

I am tied up all of Tuesday 4/23. But the rest of the week looks pretty open to me (save some small appts).

Thanks, Peter

Peter Schwartzman, LHG | Principal Hydrogeologist
Pacific Groundwater Group | **Water Resource & Environmental Consulting**
Seattle: (206) 329-0141 | Port Townsend: (360) 385-4825
Cell: (360) 301-3989 | peter@pgwg.com | www.pgwg.com

From: Jennings, Marie [mailto:Jennings.Marie@epa.gov]
Sent: Monday, April 15, 2013 12:27 PM
To: Brokaw, Loren (DFW)
Cc: Graham Peters; Link, Russell E (DFW); Peter Schwartzman; Hantush, Mohamed
Subject: RE: Leque Island Determination Conference Call proposal

Hi Loren:

I am thinking the week of April 22, 2013 would be a good time to have the call. However, if there is information you want to pass on via email before the 22nd; that could be helpful and Mohamed could also raise ask questions ahead of time. I have added Mohamed to the cc list above. Also note that Susan Eastman is no longer working on this project.

From: Brokaw, Loren (DFW) [mailto:Loren.Brokaw@dfw.wa.gov]
Sent: Monday, April 15, 2013 11:45 AM
To: Jennings, Marie
Cc: Graham Peters; Link, Russell E (DFW); Peter Schwartzman; Eastman, Susan
Subject: Leque Island Determination Conference Call proposal

Hi Marie,

In a previous email, you had mentioned that Dr. Hantush would likely have a conference call or two with Peter Schwartzman at Pacific Groundwater Group, Graham Peters at Ducks Unlimited, and potentially WDFW to review background information and criteria for the groundwater study determination. We agree that at least an initial call/meeting would be very beneficial and prudent for all parties.

To make sure everyone is available for the call and to stay on schedule to meet the proposed determination date of April 30, I can offer to set up a conference call line if that would be beneficial.

I don't have contact information for Dr. Hantush – we can work directly with him to schedule the call if that would be helpful.

Thank you, and let me know how you'd like me to proceed.

Loren

P-10

Loren Brokaw
Restoration Projects Coordinator
Washington Department of Fish and Wildlife
16018 Mill Creek Blvd
Mill Creek, WA 98012

Office: (425) 775 – 1311 ext. 105
Cell: (425) 697 – 0687

P-4

Jennings, Marie

From: Brokaw, Loren (DFW) [Loren.Brokaw@dfw.wa.gov]
Sent: Monday, April 15, 2013 1:22 PM
To: Jennings, Marie; Link, Russell E (DFW); Graham Peters; Hantush, Mohamed
Cc: Peter Schwartzman
Subject: RE: Leque Island Determination Conference Call proposal

Mohamed, Graham, Russ, Marie,

Will each of you who would like to participate please indicate your availability on 4/22, 4/24, and 4/26 for a 1 hour conference call either by emailing me or filling out the poll below?

http://www.doodle.com/isakda7snm9ky6xh

The purpose of the call is for EPA, Pacific Groundwater Group, DU, and WDFW to discuss project background information, criteria for the determination, and groundwater study details. Once everyone responds, I will set up a conference call port and send call-in instructions.

Peter – thanks for sending your availability, please let me know if it changes.

Loren

From: Peter Schwartzman [mailto:peter@PGWG.COM]
Sent: Monday, April 15, 2013 12:30 PM
To: Jennings, Marie; Brokaw, Loren (DFW)
Cc: Graham Peters; Link, Russell E (DFW); Hantush, Mohamed
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From: Brokaw, Loren (DFW) [mailto:Loren.Brokaw@dfw.wa.gov]
Sent: Monday, April 15, 2013 11:45 AM

P-12

To: Jennings, Marie
Cc: Graham Peters; Link, Russell E (DFW); Peter Schwartzman; Eastman, Susan
Subject: Leque Island Determination Conference Call proposal

Hi Marie,

In a previous email, you had mentioned that Dr. Hantush would likely have a conference call or two with Peter Schwartzman at Pacific Groundwater Group, Graham Peters at Ducks Unlimited, and potentially WDFW to review background information and criteria for the groundwater study determination. We agree that at least an initial call/meeting would be very beneficial and prudent for all parties.

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Loren Brokaw
Restoration Projects Coordinator
Washington Department of Fish and Wildlife
16018 Mill Creek Blvd
Mill Creek, WA 98012

Office: (425) 775 – 1311 ext. 105
Cell: (425) 697 – 0687

P-13

Jennings, Marie

From: Hantush, Mohamed
Sent: Monday, April 15, 2013 1:47 PM
To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Marie,

The week of April 22 will be a better time. Friday is my day off. I am still working on the report and will be able to complete it by Friday.

Thanks,

Mohamed

From: Jennings, Marie
Sent: Monday, April 15, 2013 4:18 PM
To: Hantush, Mohamed
Subject: Leque Hydrogeologic Evaluation report by PGG
When: Friday, April 19, 2013 1:00 PM-2:30 PM.
Where: I will call you at 513-569-7089

When: Friday, April 19, 2013 10:00 AM-11:30 AM (GMT-08:00) Pacific Time (US & Canada).
Where: I will call you at 513-569-7089

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

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Hi Mohamed

I am hoping that this Friday is a good time for us to talk. If we need to pick another time, I can do so. I am still working on my questions and the approach to the report. I will get them to you by Wednesday. I also will send you the comments that we got on the report from the opposing groups by tomorrow. If you questions call me. Thanks.

P-14

Jennings, Marie

From: Hantush, Mohamed
Sent: Monday, April 15, 2013 2:08 PM
To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Marie,

Tuesday 4/23/12 will be fine. Is this a different meeting than that proposed by Loren on 4/22, 4/24, and 4/26?

Mohamed

From: Jennings, Marie
Sent: Monday, April 15, 2013 4:59 PM
To: Hantush, Mohamed
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

How does Tuesday 4/23/12 work as a day for us to talk? And we can have a call with the Fish and wildlife folk on a Thursday or does Friday the 26th work for you?

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P-15

Jennings, Marie

From: Hantush, Mohamed
Sent: Monday, April 15, 2013 2:25 PM
To: Jennings, Marie
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P-16

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P-17

Jennings, Marie

From: Hantush, Mohamed
Sent: Friday, April 19, 2013 12:48 PM
To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Marie,

I will email you my review evaluation of the Leque Hydrogeology project on Monday. Please do not email me any review material from other partners until you've received my evaluation. I was not expecting such a volume of (concentrated) material, but I've enjoyed what I've read; this was an interesting and challenging project.

Thanks,

Mohamed

From: Jennings, Marie
Sent: Monday, April 15, 2013 5:45 PM
To: Hantush, Mohamed
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

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Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Marie,

I was down sick yesterday and couldn't go to work today. I apologize very much for missing the conference call. Could you please reschedule the meeting tomorrow or on Thursday.

Mohamed

From: Jennings, Marie
Sent: Monday, April 15, 2013 5:45 PM
To: Hantush, Mohamed
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Mohamed

Also, please go ahead and write-up your assessment they way you would like to do so. I will send you my questions tomorrow.

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To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

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Subject: RE: Leque Hydrogeologic Evaluation report by PGG

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Mohamed

From: Jennings, Marie
Sent: Monday, April 15, 2013 4:59 PM

P-20

To: Hantush, Mohamed
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

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Thanks,

Mohamed

From: Jennings, Marie
Sent: Monday, April 15, 2013 4:18 PM
To: Hantush, Mohamed
Subject: Leque Hydrogeologic Evaluation report by PGG
When: Friday, April 19, 2013 1:00 PM-2:30 PM.
Where: I will call you at 513-569-7089

When: Friday, April 19, 2013 10:00 AM-11:30 AM (GMT-08:00) Pacific Time (US & Canada).
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P-21

Jennings, Marie

From: Hantush, Mohamed
Sent: Tuesday, April 23, 2013 10:51 AM
To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Marie,

Could you please set a time for the conference call between 12:00 PM- 4:00 PM (ET). We will be having an important SSWR research planning meeting between 11:00 AM to 5:00 PM, part of which I would like to attend.

Mohamed

From: Jennings, Marie
Sent: Tuesday, April 23, 2013 11:10 AM
To: Hantush, Mohamed
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Thanks for update. Let's see if we can talk a little tomorrow.

From: Hantush, Mohamed
Sent: Tuesday, April 23, 2013 7:35 AM
To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

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P-22

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Hi Mohamed

P-23

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P-24

Jennings, Marie

From: Hantush, Mohamed
Sent: Tuesday, April 23, 2013 1:38 PM
To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Marie,

I have a Division Science Meeting from 2:00-4:00 PM. Please update the invitation to reflect other proposed time before or after.

Mohamed

From: Jennings, Marie
Sent: Tuesday, April 23, 2013 1:58 PM
To: Hantush, Mohamed
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Mohamed, since you have been sick, let's talk on Thursday at 11:00am (Seattle time) and I think it would be 1:00 pm your time. Does this work for you? We are scheduled to talk to the Fish and Wildlife and the folk who did the study on Friday to answer any questions you may have about the study.

From: Hantush, Mohamed
Sent: Tuesday, April 23, 2013 10:51 AM
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Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Marie,

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Mohamed

P-25

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P-26

Thanks,

Mohamed

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To: Hantush, Mohamed
Subject: Leque Hydrogeologic Evaluation report by PGG
When: Friday, April 19, 2013 1:00 PM-2:30 PM.
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P-27

Jennings, Marie

From: Hantush, Mohamed
Sent: Tuesday, April 23, 2013 2:04 PM
To: Brokaw, Loren (DFW)
Cc: Jennings, Marie
Subject: RE: Leque Island Determination Conference Call

Loren,

I have read executive report, project report, and detailed model development. Things look pretty much clear to me. Quite frankly, the approach is solid given some minor deficiencies.

Best,

Mohamed

From: Brokaw, Loren (DFW) [Loren.Brokaw@dfw.wa.gov]
Sent: Tuesday, April 23, 2013 4:36 PM
To: Jennings, Marie; Hantush, Mohamed
Cc: Peter Schwartzman; Graham Peters; Link, Russell E (DFW); Steve Liske
Subject: RE: Leque Island Determination Conference Call

Hello Mohamed and Marie,

In preparation for Friday's conference call at 10 am, attached are a few documents that we think are useful in understanding how the scope of the subject groundwater study was determined.

The attached bulleted timeline provides a summary of various decision points used in the process to determine the scope before the study was undertaken. Also attached is the scope, with three of the referenced documents in the timeline included.

Thank you and we are looking forward to the call, where we hope to be able to answer any additional questions you may have.

Loren

Loren Brokaw
Restoration Projects Coordinator
Washington Department of Fish and Wildlife
16018 Mill Creek Blvd
Mill Creek, WA 98012

Office: (425) 775 – 1311 ext. 105
Cell: (425) 697 – 0687

From: Jennings, Marie [Jennings.Marie@epa.gov]
Sent: Monday, April 15, 2013 2:40 PM
To: Brokaw, Loren (DFW); Link, Russell E (DFW); Graham Peters; Hantush, Mohamed
Cc: Peter Schwartzman
Subject: RE: Leque Island Determination Conference Call proposal

Friday 4/26/13 works for me.

From: Brokaw, Loren (DFW) [mailto:Loren.Brokaw@dfw.wa.gov]
Sent: Monday, April 15, 2013 1:22 PM
To: Jennings, Marie; Link, Russell E (DFW); Graham Peters; Hantush, Mohamed
Cc: Peter Schwartzman
Subject: RE: Leque Island Determination Conference Call proposal

Mohamed, Graham, Russ, Marie,

Will each of you who would like to participate please indicate your availability on 4/22, 4/24, and 4/26 for a 1 hour conference call either by emailing me or filling out the poll below?

http://www.doodle.com/isakda7snm9ky6xh

The purpose of the call is for EPA, Pacific Groundwater Group, DU, and WDFW to discuss project background information, criteria for the determination, and groundwater study details. Once everyone responds, I will set up a conference call port and send call-in instructions.

Peter – thanks for sending your availability, please let me know if it changes.

Loren

From: Peter Schwartzman [mailto:peter@PGWG.COM]
Sent: Monday, April 15, 2013 12:30 PM
To: Jennings, Marie; Brokaw, Loren (DFW)
Cc: Graham Peters; Link, Russell E (DFW); Hantush, Mohamed
Subject: RE: Leque Island Determination Conference Call proposal

I am tied up all of Tuesday 4/23. But the rest of the week looks pretty open to me (save some small appts).

Thanks, Peter

Peter Schwartzman, LHG | Principal Hydrogeologist
Pacific Groundwater Group | **Water Resource & Environmental Consulting**
Seattle: (206) 329-0141 | Port Townsend: (360) 385-4825
Cell: (360) 301-3989 | peter@pgwg.com | www.pgwg.com

PgG

From: Jennings, Marie [mailto:Jennings.Marie@epa.gov]
Sent: Monday, April 15, 2013 12:27 PM
To: Brokaw, Loren (DFW)
Cc: Graham Peters; Link, Russell E (DFW); Peter Schwartzman; Hantush, Mohamed
Subject: RE: Leque Island Determination Conference Call proposal

Hi Loren:

I am thinking the week of April 22, 2013 would be a good time to have the call. However, if there is information you want to pass on via email before the 22nd; that could be helpful and Mohamed could also raise ask questions ahead of time. I have added Mohamed to the cc list above. Also note that Susan Eastman is no longer working on this project.

From: Brokaw, Loren (DFW) [mailto:Loren.Brokaw@dfw.wa.gov]
Sent: Monday, April 15, 2013 11:45 AM
To: Jennings, Marie
Cc: Graham Peters; Link, Russell E (DFW); Peter Schwartzman; Eastman, Susan
Subject: Leque Island Determination Conference Call proposal

P-27

Hi Marie,

In a previous email, you had mentioned that Dr. Hantush would likely have a conference call or two with Peter Schwartzman at Pacific Groundwater Group, Graham Peters at Ducks Unlimited, and potentially WDFW to review background information and criteria for the groundwater study determination. We agree that at least an initial call/meeting would be very beneficial and prudent for all parties.

To make sure everyone is available for the call and to stay on schedule to meet the proposed determination date of April 30, I can offer to set up a conference call line if that would be beneficial.

I don't have contact information for Dr. Hantush – we can work directly with him to schedule the call if that would be helpful.

Thank you, and let me know how you'd like me to proceed.

Loren

Loren Brokaw
Restoration Projects Coordinator
Washington Department of Fish and Wildlife
16018 Mill Creek Blvd
Mill Creek, WA 98012

Office: (425) 775 – 1311 ext. 105
Cell: (425) 697 – 0687

P-30

Jennings, Marie

From: Hantush, Mohamed
Sent: Thursday, May 02, 2013 3:58 PM
To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG
Attachments: Hydrogeologic Evaluation-Leque Island Restoration.docx

Marie,

I am attaching my evaluation report to this email.

Thanks,

Mohamed

From: Jennings, Marie
Sent: Monday, April 15, 2013 5:46 PM
To: Hantush, Mohamed
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Mohamed

Also, please go ahead and write-up your assessment they way you would like to do so. I will send you my questions tomorrow.

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Mohamed

P-31

From: Jennings, Marie
Sent: Monday, April 15, 2013 4:59 PM
To: Hantush, Mohamed
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

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P-32

Jennings, Marie

From: Hantush, Mohamed
Sent: Monday, May 06, 2013 7:49 AM
To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Marie,

Thanks for the kind words. I am not sure I write very well, but I am very active in peer-reviewed publication and have published lots of technical papers, which helped me very much.

Mohamed

From: Jennings, Marie
Sent: Thursday, May 02, 2013 7:10 PM
To: Hantush, Mohamed
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Mohamed

Thank you so much! I will give this a thorough read tomorrow. At first glance it looks really good! You also write very well!

From: Hantush, Mohamed
Sent: Thursday, May 02, 2013 3:58 PM
To: Jennings, Marie
Subject: RE: Leque Hydrogeologic Evaluation report by PGG

Marie,

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Thanks,

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P-23

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P-34

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P-35

Jennings, Marie

From: Hantush, Mohamed
Sent: Monday, May 06, 2013 7:52 AM
To: Jennings, Marie
Subject: RE: Just the comments we got on the study.

Hi Marie,

Please do. Thanks again; it is a good feeling to see hands-on evidence that our research expertise transcends academics and theoretic.

Best,

Mohamed

From: Jennings, Marie
Sent: Thursday, May 02, 2013 7:41 PM
To: Hantush, Mohamed
Cc: Rylko, Michael
Subject: Just the comments we got on the study.

Hi Mohamed

The stakeholders wanted to make sure that I sent you their comments. I will be working with Michael Rylko on the analysis of the comments. Again, thanks for everything that you have done.

Marie Jennings
Drinking Water Unit, Manager
206-553-1893
206-369-9625 - EPA cell

P-36

Jennings, Marie

From: Graham Peters [gpeters@ducks.org]
Sent: Wednesday, May 08, 2013 2:10 PM
To: Jennings, Marie
Cc: Peter Schwartzman
Subject: RE: Leque Island- Next steps

Marie,

We have determined that we need to remove our monitoring wells that were in place for this study and I wanted to run this by you to see if you have any immediate concerns. We were funded by the SRFB to conduct this study and we originally set up agreements with the private landowners for a 1 year monitoring period. We did our best to leave the wells in place until a determination had been made but we simply do not feel we can delay any longer. We have already modified our agreement with SRFB to extend it until the end of June. However, we need to give the driller sufficient time to schedule, DU is wrapping up our fiscal year in June, and the landowners are ready. Before we finalize the removal for the end of next week I wanted to run this by you. Your feedback would be greatly appreciated.

Thank you,

Graham Peters
Biologist
Ducks Unlimited, Inc.
Pacific Northwest Field Office
17800 SE Mill Plain Blvd., Ste. 120
Vancouver, WA 98683
(o) 360-885-2011
(c) 503-949-5851
gpeters@ducks.org

From: Jennings, Marie [mailto:Jennings.Marie@epa.gov]
Sent: Wednesday, May 01, 2013 3:28 PM
To: 'clindsay@aesgeo.com'; 'dave.brittell@dfw.wa.gov'; 'david.brock@dfw.wa.gov'; 'd.kelly@co.island.wa.us'; 'jlis461@ecy.wa.gov'; 'kye.iris@dfw.wa.gov'; 'mesavoca@usgs.gov'; 'peter@PGWG.com'; 'tee1258@wavecable.com'; 'tony@abcenviro.com'; kitty.weisman@doh.wa.gov; Graham Peters; 'Ginny.Stern@DOH.WA.GOV'; R. Brewer; Brokaw, Loren (DFW); Kevin Plambeck; Dale Tyler
Cc: Rylko, Michael
Subject: Leque Island- Next steps

Greetings Everyone

In my March 18, 2013 email, I informed you that EPA was able to get Mohamed Hantush, from our research facility in Cincinnati Ohio to look at the Leque hydrogeological evaluation. Mohamed is in the midst of that review. Mohamed also, had a few questions for the author of the study re: the modeling; so I put him and Peter Schwartzman in touch via conference call.

I have received a request to generate notes from that call. I will work with Mohamed to do so and have them attached to the report that he is developing.

I also contacted a few of you to see if, when and how you would want to hear from the EPA hydrogeologist. In response, I am working to set up a meeting to discuss the hydrogeologist's comments and assessment of the Leque hydrogeological evaluation.

EPA was hoping to have a determination by the end of May 2013 as to whether or not the removal of dikes from Leque Island will have an impact on the sole source aquifer at Camano Island.
And EPA was hoping to set up a meeting with all stakeholders before the end of May, however, as a result of furlough days that the agency is required to take, the earliest that meeting can take place is the first week in June of 2013. .
EPA's Office of Water has also requested the support of its coastal ecologist (Michael Rylko) on this determination. He will also be in attendance at the meeting.

I am proposing the afternoon of either June 4, 5, or 6th as a meeting day for stakeholders. Let me know which day works best for you. EPA will provide the determination. a week after this meeting.

If I have left anyone off of this list that should be on it; please forward the email. Thanks.

Marie Jennings
Drinking Water Unit, Manager
206-553-1893
206-369-9625 - EPA cell

********** ATTACHMENT NOT DELIVERED **********

This Email message contained an attachment named
image001.jpg
which may be a computer program. This attached computer program could contain a computer virus which could cause harm to EPA's computers, network, and data. The attachment has been deleted.

This was done to limit the distribution of computer viruses introduced into the EPA network. EPA is deleting all computer program attachments sent from the Internet into the agency via Email.

If the message sender is known and the attachment was legitimate, you should contact the sender and request that they rename the file name extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can rename the file extension to its correct name.

For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

********** ATTACHMENT NOT DELIVERED **********

P-38

Jennings, Marie

From: Jennings, Marie
Sent: Sunday, May 12, 2013 5:11 PM
To: Hantush, Mohamed
Subject: Leque Next Steps
Attachments: Hydrogeologic Evaluation-Leque Island Restoration. MJ Comments 5.13.13.docx

Hi Mohamed

I have a couple of minor edits on your write-up. There are three comments that you should see. If you don't call me. I am using windows 8, and sometimes there are problems.

I need you to formally transmit the comments to me by writing a brief letter on EPA letter head. You can Pdf the letter and send it to me. I am working with Michael Rylko in Region10 to write the actual determination re: the Leque project. I plan to attach your write-up with the transmittal letter to the determination.

Also, The conference call to convey the results of your evaluation has now been scheduled for June 5, from 1 to 3pm. So block your calendar.

I also plan to do a write-up for your supervisor to let him know how helpful you have been to R10. I will give you a call on Tuesday in case you have questions. (Note: I am on annual leave this week, but I am following up on a few things.)

P-39

Jennings, Marie

From: Hantush, Mohamed
Sent: Monday, May 13, 2013 7:20 AM
To: Jennings, Marie
Subject: RE: Leque Next Steps

Hi Marie,
You can give me a call on Tuesday after 10:00 am (ET). I will also try to call you. We can take care or reword some of the statements in the report.

Thanks,

Mohamed

From: Jennings, Marie
Sent: Sunday, May 12, 2013 8:11 PM
To: Hantush, Mohamed
Subject: Leque Next Steps

Hi Mohamed

I have a couple of minor edits on your write-up. There are three comments that you should see. If you don't call me. I am using windows 8, and sometimes there are problems.

I need you to formally transmit the comments to me by writing a brief letter on EPA letter head. You can Pdf the letter and send it to me. I am working with Michael Rylko in Region10 to write the actual determination re: the Leque project. I plan to attach your write-up with the transmittal letter to the determination.

Also, The conference call to convey the results of your evaluation has now been scheduled for June 5, from 1 to 3pm. So block your calendar.

I also plan to do a write-up for your supervisor to let him know how helpful you have been to R10. I will give you a call on Tuesday in case you have questions. (Note: I am on annual leave this week, but I am following up on a few things.)

p-40

Jennings, Marie

From: Hantush, Mohamed
Sent: Monday, May 13, 2013 9:53 AM
To: Jennings, Marie
Subject: RE: Leque Next Steps

Hi Marie,

I am on furlough for the week of June 3rd. I did bring this to your attention. However, I will be available on Thursday 6th and Friday 7th.

Thanks,

Mohamed

From: Jennings, Marie
Sent: Sunday, May 12, 2013 8:11 PM
To: Hantush, Mohamed
Subject: Leque Next Steps

Hi Mohamed

I have a couple of minor edits on your write-up. There are three comments that you should see. If you don't call me. I am using windows 8, and sometimes there are problems.

I need you to formally transmit the comments to me by writing a brief letter on EPA letter head. You can Pdf the letter and send it to me. I am working with Michael Rylko in Region10 to write the actual determination re: the Leque project. I plan to attach your write-up with the transmittal letter to the determination.

Also, The conference call to convey the results of your evaluation has now been scheduled for June 5, from 1 to 3pm. So block your calendar.

I also plan to do a write-up for your supervisor to let him know how helpful you have been to R10. I will give you a call on Tuesday in case you have questions. (Note: I am on annual leave this week, but I am following up on a few things.)

P-41

Jennings, Marie

From: Hantush, Mohamed
Sent: Monday, May 13, 2013 1:32 PM
To: Jennings, Marie
Subject: RE: Any possible way....

This will be difficult since I have already plans in place; further, it is in the system. I will be available the Tuesday, Wednesday, and Thursday of the week of May 27 if this can make a viable alternative.

Thanks,

Mohamed

From: Jennings, Marie
Sent: Monday, May 13, 2013 4:22 PM
To: Hantush, Mohamed
Subject: Any possible way....

You can consider taking the call on Wednesday and do 2 hours of furlough on a different day? If you can't -- I understand. I just had to ask. We can discuss tomorrow.

p-42

Jennings, Marie

From: Jennings, Marie
Sent: Tuesday, May 14, 2013 3:04 PM
To: clindsay@aesgeo.com; dave.brittell@dfw.wa.gov; david.brock@dfw.wa.gov; d.kelly@co.island.wa.us; jlis461@ecy.wa.gov; kye.iris@dfw.wa.gov; mesavoca@usgs.gov; Dale Tyler; tony@abcenviro.com; kitty.weisman@doh.wa.gov; Graham Peters; Ginny Stern; R. Brewer; Kevin Plambeck; Dale Tyler; Peter Schwartzman; Rylko, Michael; Rylko, Michael; Hantush, Mohamed; loren.brokaw@dfw.wa.gov; russell.link@dfw.wa.gov
Subject: Need to do a new doodle poll for Leque Island Meeting

Greetings everyone

After confirming the date of the meeting, I have discovered that June 5, 2013 will not work for Mohamed at all. He will be furloughed on that day. I noted his furlough days incorrectly. So, we need to do another doodle poll. Mohamed is available the week of May 28th. So the new poll is from May 28th through May 30, 2013. The link to the poll is below:

http://www.doodle.com/amde22x29sqnsqn4

Sorry for any inconvenience and I appreciate your patience. Thank you. loren.brokaw@dfw.wa.gov

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Jennings, Marie

From: Doodle [mailer@doodle.com]
Sent: Tuesday, May 14, 2013 3:07 PM
To: Jennings, Marie
Subject: Doodle: "Leque Island Meeting -Rescheduled" Update

Mohamed Hantush just participated.

View this poll on your dashboard

Hi Marie Jennings,

"Mohamed Hantush" just provided information to the poll "Leque Island Meeting -Rescheduled".

Go to poll **Close poll**

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If you did not initiate this poll, somebody must have used your e-mail address by accident. Please ignore this e-mail. Unsubscribe from this poll

Doodle AG, Werdstrasse 21, 8021 Zürich