Webb, Bruce (CWS)

To: Subject: Steele, Tania (CWS) Rock Lake Colony Domestic Wastewater Treatment Lagoon File: 5059.00

The attached material can be placed in the public registries for the above project:

Response to request for additional information: Letter, October 15, 2014 (2 pages)

Request for additional information: April 25 and April 12, 2013 (3 pages)

Public Comments on Environment Act Proposal: (2 pages) Bill Massey, Concerned Citizens of Grosse Isle, March 1, 2013

Technical Advisory Committee Comments on Environment Act Proposal: (11 pages) Manitoba Conservation and Water Stewardship – Sustainable Resource and Policy Management Branch and Lands Branch, April 23 and March 11, 2013 Manitoba Conservation and Water Stewardship – Parks and Natural Areas Branch, March 7, 2013 Manitoba Conservation and Water Stewardship – Wildlife Branch, February 15, 2013 Manitoba Conservation and Water Stewardship – Wildlife Branch, February 27, 2013 Manitoba Conservation and Water Stewardship – Fisheries Branch, February 27, 2013 Manitoba Conservation and Water Stewardship – Office of Drinking Water, March 6, 2013 Manitoba Conservation and Water Stewardship – Water Use Licensing Section, February 10, 2014 Manitoba Infrastructure and Transportation - Highway Planning and Design Branch, Environmental Services Section, February 21, 2013 Manitoba Local Government – Community and Regional Planning Branch, March 8, 2013 Canadian Environmental Assessment Agency, February 13, 2013

Bruce.



12 Aviation Boulevard St. Andrews, Manitoba R1A 3N5 Canada Tel: (204) 334-8846 Fax: (204) 334-6965 E-mail: dgh@dghengineering.com

October 15, 2014 Rafiqul Chowdhury, M.Eng., P.Eng. Manitoba Conservation and Water Stewardship Suite 160, 123 Main Street Winnipeg, Manitoba, R3C 1A5

Dear Mr. Chowdhury:

Re: Rock Lake Holding Ltd. – Wastewater Treatment Lagoon – Environment Act Proposal (File: 5059.00)

This is in response to your letter dated April 12, and your e-mail dated April 25, 2013. Upon your request, responses to each individual requestor were prepared. Please find attached.

Should you have any questions or need any further information, please feel free to contact the undersigned.

	APEGII
	icate of Authorization
No. 540	Date: Oct 15. 2014

E. Rock Leke Colony - 10471009 Domestic Wastewater Treatment Leadon/Design & Working Docs/2013 from MRC/2014-19-15 To MRC.doc

- Response to the e-mail from Water Stewardship (Mr. Rob Matthews to Mr. Rafiqui Chowdhury, date February 10, 2013) Rock Lake Holding Ltd. obtained a water rights licence (#2013-051).
- 2. Response to the e-mail from Manitoba Conservation (Mr. Jonathan Wiens to Mr. Rafiqui Chowdhury, date February 15, 2013) The proposed lagoon is to be located approximately 180 metres north of the existing lagoon. The existing lagoon will be decommissioned after the proposed lagoon is in operation. No significant change in attracting geese can be expected from the operation of the proposed lagoon following decommissioning of the existing lagoon.
- 3. Response to the e-mail from Fisher Branch (Mr. Laureen Janusz to Mr. Rafiqui Chowdhury dated February 27, 2013)
- A minimum of 15 metres from Colony Creek
 The setback shown in the site plan C1 is 50 feet (15.2 metres). Please refer to the drawings.
- Phosphorous limits
 The director will specify discharge effluent limits in the licence. Rock Lake Holding Ltd. will follow the terms, conditions, specifications and limits listed in the licence.
- 4. Response to the e-mail from Concerned Citizens of Grosse Isle (Mr. Bill Massey to Mr. Rafiqul Chowdhury dated March 1, 2013) Rock Lake Holding Ltd. appreciates the invitation from the Concerned Citizens of Grosse Isle. Rock Lake Holding Ltd., however, has no plans to connect their domestic wastewater to the Grosse Isle Lagoon.
- Response to the e-mail from Manitoba Conservation Land Branch (Ms. Adara Kaita to Mr. Rafiqui Chowdhury dated March 7, 2013) This EAP is filed in accordance with the Manitoba Environment Act (C.C.S.M. c. E125). The director will specify discharge effluent limits in the licence. Rock Lake Holding Ltd. will follow the terms, conditions, specifications and limits listed in the licence.

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F Rock Lake Colony - 10471009 Domestic Wastewater Treatment Lagoon/Desion & Working Docs/2013 from MBC/2014-10-15 To MBC.doc

From: Sent: To: Subject: Chowdhury, Rafiqul (CON) April-25-13 3:04 PM 'Chunhe Liu' FW: Request for TAC Review/Comments - Rock Lake Colony Wastewater Treatment Lagoon - File: 5059.00 - Comment deadline: Mar. 7, 2013

Dear Mr. Liu:

In addition to the requests for additional information sent to you on April 12, 2013 regarding the above-mentioned proposal, please provide a response to the following questions/comments provided by Adara Kaita, Lands Branch, Manitoba Conservation and Water Stewardship.

If you have any questions, please contact me.

Thank you.

Yours truly,

Rafigul Chowdhury, M.Eng., P.Eng. Environmental Engineer Mines and Wastewater Section Environmental Approvals Branch Manitoba Conservation and Water Stewardship Government of Manitoba, Canada

160 -123 Main Street, Winnipeg, Manitoba R3C 1A5 Phone: (204) 945-2614, Fax: (204) 945-5229 Email: rafigul.chowdhury@gov.mb.ca

From: Kaita, Adara (CON) On Behalf Of +WPG1212 - Conservation_Circulars (CON) Sent: April-23-13 2:38 PM To: Chowdhury, Rafiqul (CON) Subject: FW: Request for TAC Review/Comments - Rock Lake Colony Wastewater Treatment Lagoon - File: 5059.00 -Comment deadline: Mar. 7, 2013

Hi Rafigul,

I'm not sure if it's too late to add additional comments, please see the following:

The Lands Branch notes that the proposal has no mention of nutrient management with respect to the effluent discharged. The proposed discharge route although not specifically identified in the proposal indicates the effluent will travel ten plus miles of drainage ditch (2nd and 3rd order) before it enters Sturgeon Creek. With that length of travel uptake of effluent nutrient by the existing ditch vegetation would be anticipated. It would have been appropriate for the proponent to have provided details in regards to nutrient management prescriptions for the effluent as the drainage waters eventually enter Lake Winnipeg.

- Adara



Conservation and Water Stewardship Climate Change and Environmental Protection Division Environmental Approvals Branch 123 Main Street, Suite 160, Winnipeg Manitoba R3C 1A5 T 204 945-8321 F 204-945-5229 www.gov.mb.ca/conservation/eal

File: 5059.00 April 12, 2013

· 27 · 214

Mr. Charles Liu, M.Sc., P.Eng. DGH Engineering Ltd. 12 Aviation Boulevard St. Andrews, MB R1A 3N5

Dear Mr. Liu:

Re: Rock Lake Holding Ltd. - Domestic Wastewater Treatment Lagoon - Environment Act Proposal

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The initial review of *The Environment Act* Proposal (EAP) regarding the Rock Lake Holding Ltd. - Domestic Wastewater Treatment Lagoon has been completed.

The review has generated requests for additional information. Please respond to the comments and requests from the Technical Advisory Committee (TAC) presented in the attached item being:

- 1. E-mail from Water Use Licensing Section, Regulatory Services Branch, Manitoba Conservation and Water Stewardship, dated February 10, 2013;
- E-mail from Habitat Management and Ecosystem Monitoring Section, Wildlife and Ecosystem Protection Branch, Manitoba Conservation and Water Stewardship, dated February 15, 2013; and
- 3. E-mail from Fisheries Science and Fish Culture Section, Fisheries Branch, Manitoba Conservation and Water Stewardship, dated February 27, 2013.

In addition, please address and provide detailed responses to the comments, concerns, questions and requests for additional information from the public presented in the attached item being:

4. E-mail from Bill Massey, Chair Concerned Citizens of Grosse Isle, dated March 1, 2013.

Please address and respond to the comments and requests for additional information. The EAP review process will continue upon receipt of your response.

If you have any questions please contact me at (204) 945-2614 or by e-mail at Rafiqul.Chowdhury@gov.mb.ca.

Yours truly,

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Rafiqul Chowdhury, M.Eng., P.Eng. Environmental Engineer

Attachments

c. Don Labossiere, Director, Environmental Compliance and Enforcement Public Registries From:Bill Massey [wmassey@highspeedcrow.ca]Sent:March-01-13 8:05 PMTo:Chowdhury, Rafiqul (CON)Subject:Fw: proposal

Mr. Rafiqul Chowdhury Approvals Branch Manitoba Conservation and Water Stewardship

Dear Mr. Chowdhury;

The Concerned Citizens of Grosse Isle is a group of residents living close to Rock Lake Colony. Our group was formed in 2004 when the Colony proposed an expansion to their hog production facilities. At that time we reported some serious environmental infractions to Conservation and when Conservation investigated they discovered the Colony was operating an unlicensed human waste lagoon. Conservation started proceedings against the Colony at that time. When we inquired about the status of those proceedings in 2009 we were told that Conservation had "lost the file". Conservation then began again to pursue the matter. The Colony started to comply when Conservation initiated a prosecution package last year.

A new sewage lagoon has just been constructed for the community of Grosse Isle (150 people) and Rosser (100 people) as well as the local district. We propose that Rock Lake Colony (140 people) connect with this system. We suggest they use the money they would spend on their own lagoon to post a bond to Rosser Municipality to be used for expansion of the Rosser lagoon in order to accommodate this proposal and future housing developments in Grosse Isle and Rosser. Running a line from the Colony down the Meridian Road South to mile 70 and across to mile 1 East to connect with the existing pipeline could accommodate another dozen residents in the RM of Rosser.

We are concerned about the environment with the building of yet another lagoon in our community. Coli-form tests done in Colony Creek next to the water resources offices were off the measurable scale. This poses a health risk to the people who work there as well as local residents. The lagoon in Rosser which also is situated on Colony Creek is much more Isolated and better monitored. We understand that Lake Winnipeg is the most endangered lake in the world. Why are we proposing to build yet another lagoon in this watershed? Does the Government know how many lagoons and manure holding facilities we have in this immediate area already? This lagoon will also be directly in the flight path of migratory waterfowl. We find it ironic that the government is concerned about wildlife coming in contact with private landowners' sewage ejector systems yet is considering an open lagoon of this size. Are you aware the proposed site for this lagoon has been prone to flooding in the past? We are concerned about public safety with this proposed lagoon. There is a possibility of a new residential housing development going up within a mile of this site. A barbed wire fence will not keep out children who might be playing in the area. Colony Creek runs through another property just downstream that is being considered for a future housing development. DGH Engineering is suggesting that sludge from the old lagoon may be spread on adjacent farmland. We understand the City of Winnipeg has abandoned this practice. Where would this sludge be spread? How close to the community will this occur? Will weather and moisture conditions be considered?

Over the years the apparent lack of concern the Colony demonstrates for the surrounding community has seriously undermined any confidence the community has for the Colony. For the past seven years, the Colony has not completed work on their hog manure storage facility which has created serious odor

problems for nearby residents. Infractions of the Planning Act and environmental issues too numerous to mention here have contributed to this lack of confidence. Conservation, which holds a permit on the manure storage facility, and the Farm Practices Protection Board have not determined until just recently which government department is responsible to cause the Colony rectify this situation. The apparent mishandling of these situations by Conservation has created alarm and mistrust in the community.

In our opinion it is time for the Colony to become a responsible member of the community at large. They find themselves an important member of a highly populated area. As such they need to become "good neighbours" and participate in coordinated community development. As a part of the community the Colony could participate in the building of necessary and well planned infrastructure. This would relieve pressure on Provincial monitoring staff and the Colony. Public officials would then be in charge of the management of the lagoon. Environmental and public safety concerns would be addressed. We believe this to be a win-win idea for both the Colony and the community.

We appreciate the opportunity to respond to this proposal and want to discuss this further with you. We We request a meeting with you at your earliest convenience.

Thank you.

Bill Massey Chair Concerned Citizens of Grosse Isle

From:Kaita,Sent:April-2To:ChowcSubject:FW: R

Kaita, Adara (CON) on behalf of +WPG1212 - Conservation_Circulars (CON) April-23-13 2:38 PM Chowdhury, Rafiqul (CON) FW: Request for TAC Review/Comments - Rock Lake Colony Wastewater Treatment Lagoon - File: 5059.00 - Comment deadline: Mar. 7, 2013

Hi Rafiqul,

I'm not sure if it's too late to add additional comments, please see the following:

The Lands Branch notes that the proposal has no mention of nutrient management with respect to the effluent discharged. The proposed discharge route although not specifically identified in the proposal indicates the effluent will travel ten plus miles of drainage ditch (2nd and 3rd order) before it enters Sturgeon Creek. With that length of travel uptake of effluent nutrient by the existing ditch vegetation would be anticipated. It would have been appropriate for the proponent to have provided details in regards to nutrient management prescriptions for the effluent as the drainage waters eventually enter Lake Winnipeg.

- Adara

From: Kaita, Adara (CON) On Behalf Of +WPG1212 - Conservation_Circulars (CON) Sent: March-11-13 9:17 AM To: Chowdhury, Rafiqul (CON) Cc: Campbell, Lyle (CON) Subject: RE: Request for TAC Review/Comments - Rock Lake Colony Wastewater Treatment Lagoon - File: 5059.00 -Comment deadline: Mar. 7, 2013

Hi Rafiqul,

The Sustainable Resource and Policy Management Branch and the Lands Branch have no concerns and note that the land is under private tenure.

- Adara

From: Sent: To: Subject: Elliott, Jessica (CON) March-07-13 10:03 AM Chowdhury, Rafiqul (CON) RE: Request for TAC Review/Comments - Rock Lake Colony Wastewater Treatment Lagoon - File: 5059.00 - Comment deadline: Mar. 7, 2013

Parks and Natural Areas Branch has reviewed the proposal filed pursuant to the Environment Act for the Rock Lake Colony Wastewater Treatment Lagoon - File: 5059.00. The Branch has no comments to offer.

Jessica Elliott, M.E.Des. Head, Park System Planning and Ecology Parks and Natural Areas Branch Conservation and Water Stewardship Box 53, 200 Saulteaux Cres Winnipeg IMB R3J 3W3

phone: 204-945-4365 cell: 204-805-4084 fax: 204-945-0012

email: <u>Jessica.Elliott@gov.mb.ca</u>

Before printing, think about the environment

Avant d'imprimer, pensez à l'environnement

From: Wiens, Jonathan (CON) February-15-13 9:15 AM Chowdhury, Rafiqul (CON) FW: Request for TAC Review/Comments - Rock Lake Colony Wastewater Subject: Treatment Lagoon - File: 5059.00 - Comment deadline: Mar. 7, 2013

Wildlife Branch does not have any concerns with the proposed project Client File #5059.00, but offers the following comment:

It is important to note that this region of Manitoba attracts large numbers of migrating Canada Geese. Any future land use developments (e.g. green space, water features, lagoons) need to consider the possibility of attracting geese, which may create conflicts with neighbours or lagoon operations. Wildlife Branch recommends that the project proponent consider this potential conflict during the planning phase and incorporate any required mitigation.

Wildlife Branch recommends that the project proponent consider reviewing the following website for more information:

http://www.gov.mb.ca/conservation/wildlife/problem wildlife/waterfowl cranes.html

The proponent may also want to contact the Urban Goose Management Committee for more information.

Jonathan Wiens, MSc Habitat Specialist Manitoba Conservation Box 24 - 200 Saulteaux Crescent Winnipeg, Manitoba, R3J 3W3 Phone: (204) 945-7764 Mobile: (204) 918-3420 Fax: (204) 945-3077 Email: jonathan.wiens@gov.mb.ca

Sent:

To:

From: Sent: To: Cc: Subject: Janusz, Laureen R (MWS) February-27-13 9:00 AM Chowdhury, Rafiqul (CON) Klein, Geoff (MWS); Long, Jeff (MWS) File 5059.00 Rock Lake Colony Wastewater Treatment Lagoon - due Mar. 7, 2013

Hi Rafiqul,

Fisheries Branch has reviewed this request to construct a new two cell wastewater treatment lagoon for Rock Lake Holding Ltd in SE 1-13-1 W. The cells will have a one meter clay liner. Effluent will be discharged to Colony Creek which flows into Sturgeon Creek, a tributary to the Assiniboine River, between June 15th and November 1st. Stone rip rap will be installed in the creek at the discharge location to protect the creek from erosion. The anticipated wastewater volume is 8,000 m3.

Fisheries Branch has a couple of concerns with this proposal. First it appears that the new lagoon location is almost adjacent to Colony Creek. Not sure if there are any setback requirements adjacent to surface waters for wastewater treatment lagoons but in the Provincial Land Use Policies we request 15 m adjacent from the high water mark of 1st and 2nd order creeks and 30 m on 3rd order and higher and lakes be retained as native vegetation. Is it possible to ensure a minimum of 15 m between the base of the outer cell and the creek?

Given the proximity of the proposed lagoon in the effluent is being discharged directly into Colony Creek. Fisheries Branch doesn't have a lot of fish information for this creek but know that it does support, at least seasonally, small bodied fish species. It also drains into Sturgeon Creek which provides habitat for large and small bodied fish species. The applicants do not mention the requirement to meet phosphorous limits and so have not discussed any nutrient reduction strategies. Would they not need to meet this requirement? If so could they please provide ideas on how they will.

It is important that the effluent meet or exceed Manitoba Water Quality Standards, Objectives and Guidelines at all times. It would also be more beneficial if the discharge outlet was located on the opposite side of the secondary cell so a longer discharge channel could be constructed for the effluent to travel prior to entering Second Creek. If they have to implement a nutrient reduction strategy a longer discharge channel with perhaps some pools could act to uptake nutrients if trickle discharge was implemented. Generally not sure when nutrient reduction strategies use uptake in the receiving surface water if Water Science Management requests monitoring but from our perspective it would be beneficial for the proponents to monitor the effluent in Colony Creek to confirm effectiveness.. At least for a few years following the project and under different flow regimes.

Also it would be good to have the standard clause requesting erosion and sediment control measures during and after construction until the site has stabilized as a licence condition.

Thanks Rafiqul.

Laureen Janusz Fisheries Science and Fish Culture Section Fisheries Branch, Manitoba Conservation and Water Stewardship Box 20, 200 Saulteaux Crescent Winnipeg, MB R3J 3W3

Phone: 204.945.7789 Cell: 204.793.1154 Fax: 204.948-2308 Email: <u>Laureen.Janusz@gov.mb.ca</u>

From: Sent: To: Subject: Stibbard, James (MWS) March-06-13 10:50 AM Chowdhury, Rafigul (CON) EAP 5059.00 Rock Lake Colony Wastewater Lagoon System

Mr. Chowdhury,

I reviewed the above noted EAP. The proposal notes the lagoon will be lined with impervious clay to Manitoba Conservation Standards and the discharged effluent will meet Manitoba Conservation quality requirements. The treated effluent discharges into a watercourse which is not used as a source for drinking water anywhere downstream of the discharge point. As such, Office of Drinking Water sees no cause for concern respecting safety of drinking water systems from this proposed development.

I trust this is satisfactory, but if you have any questions, please call. Regards,

James Stibbard P. Eng. Approvals Engineer Office of Drinking Water 1007 Century Street Winnipeg MB R3H 0W4 phone: (204) 945-5949 fax: (204) 945-1365 email: James.Stibbard@gov.mb.ca website: www.manitoba.ca/drinkingwater

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From: Sent: To: Cc: Subject:

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Matthews, Rob (MWS) February-10-13 11:12 AM Chowdhury, Rafiqul (CON) McCombe, Christopher (MWS); Thibert, Lorraine (MWS); Dey, Asit (MWS) RE: Request for TAC Review/Comments - Rock Lake Colony Wastewater Treatment Lagoon - File: 5059.00 - Comment deadline: Mar. 7, 2013

Rafiqul,

The Water Use Licensing Section rarely has reason to comment on an application for an Environment Act Licence for a Wastewater Treatment Lagoon.

However, the information contained in such applications on hydraulic loadings provides us with a useful check on compliance issues pertaining to the process that we administer, the use of water in excess of amounts that require licensing under The Water Rights Act.

Based on an annual hydraulic loading of 9200 cubic meters this community should have a water rights licence for municipal use but it does not.

This may because they receive their treated water supplies from the regional water distribution system but the report does not indicated where the colony gets its water from.

Sometimes these reports include this information but in many cases they do not. In this case it does not.

Can you please ask the proponent where the colony gets its treated water from?

Thanks,

Rob Matthews 945-6118



Infrastructure and Transportation Highway Planning and Design Branch Environmental Services Section 1420 - 215 Geny St., Winnipeg, MB RSC 3P3 T (204) 619-4358 F (204) 945-0593

February 21, 2013

Tracey Braun, M. Sc. Director, Environmental Approvals Branch Manitoba Conservation and Water Stewardship 123 Main St., Suite 160 Winnipeg, MB R3C 1A5

RE: Rock Lake Colony -- Wastewater Treatment Lagoon Client File No 5059.00

Dear Ms. Braun:

MIT has reviewed The Environment Act Proposal noted above and we do not have concerns with the development as proposed.

Thank you very much for providing us the opportunity to review the proposal.

Sincerely

Ryan Coulter, M. Sc., P. Eng. Manager of Environmental Services





Memorandum

DATE: March 8, 2013

TO: Rafiqul Chowdhury Environmental Engineer MB Conservation & Water Stewardship Suite 160-123 Main St. Winnipeg, MB R3C 1A5 PHONE NO.: (204) 945-2614

FROM: Ottilie Murray Acting Regional Manager Community & Regional Planning 103-235 Eaton Ave. Selkirk, MB R1A 0W7 PHONE NO.: (204) 785-5130

SUBJECT: Rock Lake Colony Wastewater Treatment Lagoon File 5059 RM of Woodlands SE 1-13-1 WPM

Community and Regional Planning has reviewed the above proposal by the Rock Lake Colony for a wastewater treatment lagoon and can provide the following information:

The property is designated "Agricultural Area" in the RM of Woodlands Development Plan By-law No. 2548/08 and is zoned Agricultural General" in the Zoning By-law No. 2562/08.

The proposed lagoon site is located within the Rural Municipality of Woodlands, and in proximity to the boundaries between the Rural Municipalities of Woodlands, Rockwood and Rosser. The community of Grosse Isle, which spans the municipalities of Rockwood and Rosser, is approximately 1 mile southeast of the proposed site. Assessment records indicate 2 dwellings within 2640 feet of the proposed lagoon and 31 dwellings between 2640 and 5280 feet of the lagoon. Please see the attached.

Thank you for the opportunity to comment.

Sent via email

Ottilie Murray Acting Regional Manager





Rock Lake Colony Lagoon S.E. 1/4 Sec. 1-13-1W. R.M. of Woodlands 2 Dwellings within
2640' of lagoon
31 Dwellings between
2640' and 5280' of
lagoon

Date of Photo - 2011



From: Sent: To: Subject: Flynn,Heather [CEAA] [Heather.Flynn@ceaa-acee.gc.ca] February-13-13 2:12 PM Chowdhury, Rafiqul (CON) 5451 (MC File 5059.00) Rock Lake Holdings - WWTL

Good afternoon,

This email is to confirm receipt of the Environment Act Proposal for the construction of the Rock Lake Colony Wastewater Treatment Lagoon by Rock Lake Holdings (MC File 5059.00).

As you know, the *Canadian Environmental Assessment Act*, 2012 (CEAA 2012) came into force in July 2012, focusing federal attention on those project proposals that have a greater potential for significant adverse environmental effects in areas of federal jurisdiction. The *Regulations Designating Physical Activities* identify the activities which, if carried out individually or in combination, would constitute a "designated project" that is subject to the requirements of CEAA 2012.

The proponent is responsible for confirming its federal regulatory responsibilities associated with its project. In your response to the proponent, please advise it to review the noted regulations (<u>http://laws-lois.justice.gc.ca/eng/regulations/SOR-2012-147/index.html</u>) and contact the Canadian Environmental Assessment Agency if its proposal includes any activity described.

Thank you for your effort to ensure coordination and close communication between provincial and federal levels of government. If you require any further clarification on the requirements of CEAA 2012, please feel free to contact me.

Regards, Heather