



RMB Environmental Laboratories, Inc.

22796 County Highway 6 • Detroit Lakes, MN 56501-7002 • 218-846-1465 Phone and Fax • rmbel@rmbel.info • www.rmbel.info
Certification/Accreditation Numbers: Minnesota Department of Health # 027-005-336 • North Dakota Department of Health # R187

Laboratory Results
October 15, 2012
Original Report
Page 1 of 4

Report To: LMKP LID
Box 133
Perham, MN 56573

Bill To: LMKP LID
Box 133
Perham, MN 56573

Project: AIS monitoring
Lab Code: 182600
Matrix: Surface Water
Collection: Composite
Samplers: Jake Anderson, Chris Larson
Date/Time Sampled: 08/29/12 0955
Date/Time Received: 08/29/12 1330
Sample Description: Rusche 56-1641 composite of 2 sites

Laboratory: RMB Environmental Laboratories, Inc.
Contact/Phone: Robert Borash, 218-846-1465
Sample Receipt: Samples meet proper sampling and transportation guidelines

Compound	Analysis Method	Analysis Date	Analysis Time	DF	MDL	RL	Sample Result
Miscellaneous Analyses							
Spiny water fleas	Microscopy	9/25/2012		1	1	1	Absent #/100 ml
Zebra Mussel Veligers	Microscopy	9/25/2012		1	1	1	Present #/100 ml

Comments: Sample preserved with 70% ethanol

DF = Dilution Factor
RL = Reporting limit of the analysis method.
MDL = Minimum detection limit of the analysis method.

Report approved by:

The results in this report apply only to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

EPA Lab ID # MN00918, MDH # 027-005-336, ND # R-187

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Report To: LMKP LID
 Box 133
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Bill To: LMKP LID
 Box 133
 Perham, MN 56573

Project: AIS monitoring
Lab Code: 182601
Matrix: Surface Water
Collection: Composite
Samplers: Jake Anderson, Chris Larson
Date/Time Sampled: 08/29/12 1025
Date/Time Received: 08/29/12 1330
Sample Description: Paul 56-0335 composite of 2 sites

Laboratory: RMB Environmental Laboratories, Inc.
Contact/Phone: Robert Borash, 218-846-1465
Sample Receipt: Samples meet proper sampling and transportation guidelines

Compound	Analysis Method	Analysis Date	Analysis Time	DF	MDL	RL	Sample Result	
Miscellaneous Analyses								
Spiny water fleas	Microscopy	9/25/2012		1	1	1	Absent	#/100 ml
Zebra Mussel Veligers	Microscopy	9/25/2012		1	1	1	Present	#/100 ml

Comments: Sample preserved with 70% ethanol

DF = Dilution Factor
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Report To: LMKP LID
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Bill To: LMKP LID
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Perham, MN 56573

Project: AIS monitoring
Lab Code: 182602
Matrix: Surface Water
Collection: Composite
Samplers: Jake Anderson, Chris Larson
Date/Time Sampled: 08/29/12 1055
Date/Time Received: 08/29/12 1330
Sample Description: Little McDonald 56-0328 composite of 3 sites

Laboratory: RMB Environmental Laboratories, Inc.
Contact/Phone: Robert Borash, 218-846-1465
Sample Receipt: Samples meet proper sampling and transportation guidelines

Compound	Analysis Method	Analysis Date	Analysis Time	DF	MDL	RL	Sample Result
Miscellaneous Analyses							
Spiny water fleas	Microscopy	9/25/2012		1	1	1	Absent #/100 ml
Zebra Mussel Veligers	Microscopy	9/25/2012		1	1	1	Absent #/100 ml

Comments: Sample preserved with 70% ethanol

DF = Dilution Factor
RL = Reporting limit of the analysis method.
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Report To: LMKP LID
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Bill To: LMKP LID
Box 133
Perham, MN 56573

Project: AIS monitoring
Lab Code: 182603
Matrix: Surface Water
Collection: Composite
Samplers: Jake Anderson, Chris Larson
Date/Time Sampled: 08/29/12 1110
Date/Time Received: 08/29/12 1330
Sample Description: Kerbs 56-1636 composite of 2 sites

Laboratory: RMB Environmental Laboratories, Inc.
Contact/Phone: Robert Borash, 218-846-1465
Sample Receipt: Samples meet proper sampling and transportation guidelines

Compound	Analysis Method	Analysis Date	Analysis Time	DF	MDL	RL	Sample Result
Miscellaneous Analyses							
Spiny water fleas	Microscopy	9/25/2012		1	1	1	Absent #/100 ml
Zebra Mussel Veligers	Microscopy	9/25/2012		1	1	1	Present #/100 ml

Comments: Sample preserved with 70% ethanol

DF = Dilution Factor
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Moriya Rufer

From: Montz, Gary R (DNR) [Gary.Montz@state.mn.us]
Sent: Tuesday, October 02, 2012 1:37 PM
To: Moriya Rufer
Subject: RE: veliger check

second confirmation

Moriya:

Looked through the samples you sent down. There are a few organisms that look like they may be veligers, but I can't tell if they are (were) live or empty. I have passed along the info to our Invasive species specialist up in the area (you may know him, Nathan Olson) to see if he can get out to look at lakes for anything settled. Did you collect the samples; if so, where from on the lake? If someone else collected them, do you know where (and gear used)? Thanks, if Nathan finds anything (or nothing) I will pass along.

Gary Montz
Research Scientist 2, Aquatic Invertebrate Biologist
MNDNR - Division of Ecological and Water Resources
500 Lafayette Road, Box 25
St. Paul, MN 55155-4025
651/259-5121
email: gary.montz@state.mn.us

From: Moriya Rufer [<mailto:moriyar@rmbel.info>]
Sent: Monday, October 01, 2012 4:00 PM
To: Montz, Gary R (DNR)
Subject: RE: veliger check

Thanks, Gary. I appreciate it.

Moriya

From: Montz, Gary R (DNR) [<mailto:Gary.Montz@state.mn.us>]
Sent: Monday, October 01, 2012 1:54 PM
To: Moriya Rufer
Subject: RE: veliger check

Send them on down – not sure I'll be able to confirm or change your ID, but will take a look at them and see what I think.

Gary Montz
Research Scientist 2, Aquatic Invertebrate Biologist
MNDNR - Division of Ecological and Water Resources
500 Lafayette Road, Box 25
St. Paul, MN 55155-4025
651/259-5121
email: gary.montz@state.mn.us

From: Moriya Rufer [<mailto:moriyar@rmbel.info>]
Sent: Monday, October 01, 2012 1:30 PM
To: Montz, Gary R (DNR)
Subject: RE: veliger check

Hi Gary,

Moriya Rufer

From: Denise Mayer [dmayer@MAIL.NYSED.GOV]
Sent: Friday, October 05, 2012 12:23 PM
To: Moriya Rufer
Cc: gary.montz@state.mn.us; nathan.olson@state.mn.us
Subject: RE: Veligers
Attachments: JPEG image.JPG

third confirmation

Hi Moriya,

I received your sample today and just took a look. Your note was correct in saying there were many bean-shaped, likely ostracod organisms to sort through, but I agree that a few appeared to have the size and shape of dreissenid veligers. I took a photo of what seemed to be the best veliger specimen (attached). This specimen was likely alive at collection since we can still see so much defined tissue.

How confident am I that this is a dreissenid veliger? I'd say about 99%. I would only be 100% confident with DNA analysis.

If you'd like to discuss further, please feel free to call or send an email. I'll be on traveling most of next week and the early part of the following week, but you can always try my cell phone too.

Have a good weekend.

Denise

Denise A. Mayer, Ph.D.
Acting Director and Research Scientist
Field Research Laboratory
New York State Museum
51 Fish Hatchery Road
Cambridge, NY 12816
518.677.8245
518.677.5236 fax
518.744.8668 mobile
dmayer@mail.nysed.gov

>>> Moriya Rufer 10/04/12 12:29 PM >>>
Hi Denise,

I'm sending the vial overnight today, so you will receive it tomorrow morning. Thanks a lot for taking a look.

Moriya

From: Denise Mayer [mailto:DMAYER@MAIL.NYSED.GOV]
Sent: Wednesday, October 03, 2012 12:30 PM
To: Montz, Gary R (DNR); Olson, Nathan W (DNR); Moriya Rufer
Subject: RE: Veligers

Hi Moriya,

That'll be great. I'll be out of town quite a bit over the next 2 weeks (starting next Tues), so getting them this week would be helpful.

Thanks.

20-30ft water
10ft TDN

sites

- Little Mac - 3
- Kerbs - 2
- Rusche - 2
- Paul - 2

