



1049 - 28th Street SE  
Grand Rapids, MI 49508  
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September 24, 2007

Rusty Trapp  
Thornapple River Assoc.  
7400 Whispering Ridge SE  
Grand Rapids, MI 49546

TEL: (616) 977-7676

FAX

RE: River Water Test

Dear Rusty Trapp:

Order No.: 0709114

BIO-CHEM Laboratories, Inc. received 2 samples on 9/17/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

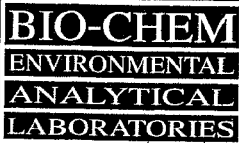
If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Euwema".

Cindy Euwema  
Office Manager



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# Chain of Custody

0709114

Project Number \_\_\_\_\_  
 Date 9-17-07 Date Due \_\_\_\_\_

Firm Name: THORNAPPLE RIVER ASSOC  
 Turn around time \_\_\_\_\_  
 Firm Address: 7400 WHISPERING RIDGE SE  
 Project Name: RIVER WATER TEST  
 City, State, Zip: GR MI 49546  
 State Samples Taken From \_\_\_\_\_  
 Phone: 977-7676 Fax \_\_\_\_\_  
 Contact Person: KUSTY TRAPP

Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Analysis Desired (One per line)										Remarks	
							DO	Phos	Chlorophyll									
1		I 96 Bridge	9/17	12:30p	) Aquous	) 2	X	X	X									
2			9/17	12:30p														
3		Dam	9/17	12:40p	)	) 2	X	X	X									
4			9/17	12:40														
5																		
6																		
7																		
8																		
9																		
10																		

Released by: R Trapp Received by: Cindy Euvema Date: 9-17-07 Time: 2:20

Laboratory use only  
 Blue Ice \_\_\_\_° Rustytrapp@comcast.net  
 Regular Ice  
 No Coolant

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**CLIENT:** Thornapple River Assoc.  
**Project:** River Water Test  
**Lab Order:** 0709114

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Collection Date</b>	<b>Date Received</b>
0709114-01A	I-96 Bridge	Aqueous	9/17/2007	9/17/2007
0709114-02A	Dam	Aqueous	9/17/2007	9/17/2007

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**CLIENT:** Thornapple River Assoc.  
**Project:** River Water Test  
**Lab Order:** 0709114

**CASE NARRATIVE**

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Samples are routinely analyzed using methods outlined in the following references:

- (SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
- (E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
- (A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
- (D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

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No data qualifications required.

**CLIENT:** Thornapple River Assoc.  
**Lab Order:** 0709114  
**Project:** River Water Test  
**Lab Sample ID:** 0709114-01A

**Project Number:** N/A  
**Client Sample ID:** I-96 Bridge  
**Collection Date:** 9/17/2007  
**Matrix:** AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
<b>Chlorophyll A</b>								
1. Chlorophyll A	10200H	2.2		-100	mg/m <sup>3</sup>	1	SCL	9/18/2007
<b>Dissolved Oxygen</b>								
1. Oxygen, Dissolved	Hach-DO	12		1.0	mg/L	1	RHS	9/17/2007
<b>Phosphorus by UV/VIS Spec.</b>								
1. Phosphorus, Total (As P)	E365.3	0.048		0.010	mg/L	1	HEL	9/21/2007

**Definitions:** PQL - Practical Quantitation Limit  
 DF - Dilution Factor

**Qualifiers (Q):** J - Detected below PQL but above MDL: Estimated  
 S - Spike Recovery Outside Acceptance Limits  
 B - Analyte detected in associated Method Blank  
 N - See case narrative for explanation

**CLIENT:** Thornapple River Assoc.  
**Lab Order:** 0709114  
**Project:** River Water Test  
**Lab Sample ID:** 0709114-02A

**Project Number:** N/A  
**Client Sample ID:** Dam  
**Collection Date:** 9/17/2007  
**Matrix:** AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
<b>Chlorophyll A</b>								
1. Chlorophyll A	10200H	4.3		-100	mg/m <sup>3</sup>	1	SCL	9/18/2007
<b>Dissolved Oxygen</b>								
1. Oxygen, Dissolved	Hach-DO	10		1.0	mg/L	1	RHS	9/17/2007
<b>Phosphorus by UV/VIS Spec.</b>								
1. Phosphorus, Total (As P)	E365.3	0.043		0.010	mg/L	1	HEL	9/21/2007

**Definitions:** PQL - Practical Quantitation Limit  
 DF - Dilution Factor

**Qualifiers (Q):** J - Detected below PQL but above MDL: Estimated  
 S - Spike Recovery Outside Acceptance Limits  
 B - Analyte detected in associated Method Blank  
 N - See case narrative for explanation

**Lab Order:** 0709114  
**Client:** Thornapple River Assoc.  
**Project:** River Water Test

**ANALYTICAL DETAIL REPORT**

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
0709114-01A	I-96 Bridge	Aqueous	Chlorophyll A	9/17/2007			R53888	9/18/2007	SCW_070918A
	I-96 Bridge	Aqueous	Dissolved Oxygen	9/17/2007			R53957	9/17/2007	POTENTIAL_070917A
	I-96 Bridge	Aqueous	Phorphorus by UV/VIS Spec.	9/17/2007			R53956	9/21/2007	SPEC_A_070921A
0709114-02A	Dam	Aqueous	Chlorophyll A	9/17/2007			R53888	9/18/2007	SCW_070918A
	Dam	Aqueous	Dissolved Oxygen	9/17/2007			R53957	9/17/2007	POTENTIAL_070917A
	Dam	Aqueous	Phorphorus by UV/VIS Spec.	9/17/2007			R53956	9/21/2007	SPEC_A_070921A