



*State of New Hampshire*  
*Environmental Laboratory Accreditation Program*  
*Awards*  
**PRIMARY NH ACCREDITATION**

*to*  
**GREAT LAKES ENVIRONMENTAL CENTER INC**  
*of*  
**TRAVERSE CITY, MI**

For the analytes listed on the attached page(s) in accordance  
with the provisions on the NELAC Standards and Env-C 300.

**Certificate Number:** 205916

**Effective Date:** 09/02/2016

**Expiration Date:** 09/01/2017

**Laboratory ID:** 2059



NELAP RECOGNIZED

*Bill Hall*  
GREAT LAI 09/20/2016

Bill Hall  
NH ELAP Program Manager

Method accreditation does not imply acceptance for NHDES compliance testing. Laboratory is required to use EPA-approved methods required by regulation. Continuing accreditation status is dependent on successful ongoing participation in the program. Customers may verify the lab's current accreditation status by calling (603) 271-2998

# NEW HAMPSHIRE ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

29 Hazen Drive, PO Box 95, Concord, NH 03302 (603) 271-2998

## PRIMARY ACCREDITATION PARAMETER LIST

ANALYTE LIST NUMBER: 205916-A



**GREAT LAKES ENVIRONMENTAL CENTER INC**  
**739 HASTINGS STREET**

**TRAVERSE CITY MI 49686**  
**(231) 941-2230**  
**Lab ID: 2059**



NELAP RECOGNIZED

Analyte Code	Analyte Name	Effective Date	Expiration Date	Matrix	Category	Accr. Type
<b>Method Code: 20045618 Method Ref.: SM 2320 B-2011</b>		<b>Revision:</b>		<b>Date: 2011</b>		
1505	ALKALINITY	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: 20047614 Method Ref.: SM 2340 C-2011</b>		<b>Revision:</b>		<b>Date: 2011</b>		
1755	HARDNESS AS CaCO3	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: 20050413 Method Ref.: SM 2540 C-2011</b>		<b>Revision:</b>		<b>Date: 2011</b>		
1955	RESIDUE, FILTERABLE (TDS)	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: 20051212 Method Ref.: SM 2540 D-2011</b>		<b>Revision:</b>		<b>Date: 2011</b>		
1960	RESIDUE, NON-FILTERABLE (TSS)	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: 20086811 Method Ref.: SM 4500-CL<sup>-</sup> E-2011</b>		<b>Revision:</b>		<b>Date: 2011</b>		
1575	CHLORIDE	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: 20112816 Method Ref.: SM 4500-NO2 B</b>		<b>Revision: 22ND ED</b>		<b>Date: 2011</b>		
1840	NITRITE AS N	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: 20118461 Method Ref.: SM 4500-NO3 H-2011</b>		<b>Revision:</b>		<b>Date: 2011</b>		
1820	NITRATE-NITRITE AS N	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: 20120245 Method Ref.: SM 4500-NORG D</b>		<b>Revision: 22ND ED</b>		<b>Date: 2011</b>		
1795	KJELDAHL NITROGEN, TOTAL (TKN)	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: 20124816 Method Ref.: SM 4500-P F</b>		<b>Revision: 22ND ED</b>		<b>Date: 2011</b>		
1870	ORTHOPHOSPHATE AS P	08/18/2014	09/01/2017	N	NMI	NE
1910	PHOSPHORUS, TOTAL	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: 20300247 Method Ref.: SM 10200 H</b>		<b>Revision: 22ND ED</b>		<b>Date: 2011</b>		
9344	CHLOROPHYLL A	11/10/2015	09/01/2017	N	NMI	NE
<b>Method Code: 40024202 Method Ref.: WRIR 03-4174</b>		<b>Revision:</b>		<b>Date:</b>		
1827	NITROGEN, TOTAL	08/18/2014	09/01/2017	N	NMI	NE
<b>Method Code: NH0248 Method Ref.: SM 4500-P F MODIFIED</b>		<b>Revision: 22ND ED</b>		<b>Date: 2011</b>		
1910	PHOSPHORUS, TOTAL	06/23/2016	09/01/2017	SC	NMI	NE
<b>Method Code: 10294732 Method Ref.: EPA 100.2 EPA/600/R-99/064 (10-DAY CHIR D</b>		<b>Revision:</b>		<b>Date:</b>		
3210	10 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3215	10 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3220	10 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
<b>Method Code: 10294743 Method Ref.: EPA 100.5 EPA/600/R-99/064 (LONG-TERM C</b>		<b>Revision:</b>		<b>Date:</b>		
3205	# EGGS/EGG CASE	11/18/2013	09/01/2017	SC	SED	NE
3210	10 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3215	10 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE

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**739 HASTINGS STREET**

**TRAVERSE CITY MI 49686**  
**(231) 941-2230**  
**Lab ID: 2059**



NELAP RECOGNIZED

Analyte Code	Analyte Name	Effective Date	Expiration Date	Matrix	Category	Accr. Type
3220	10 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3225	20 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3230	20 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3235	20 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3312	AVERAGE DAY TO EMERGENCE	11/18/2013	09/01/2017	SC	SED	NE
3359	FEMALE/MALE RATIO	11/18/2013	09/01/2017	SC	SED	NE
3373	IC25 (% EMERGENCE)	11/18/2013	09/01/2017	SC	SED	NE
3465	NOEC (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
3466	LOEC (% EMERGENCE)	11/18/2013	09/01/2017	SC	SED	NE
3467	LOEC (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3468	LOEC (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3469	LOEC (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
3470	IC25 (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3471	LONG TERM % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3472	IC25 (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3473	LONG TERM BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3474	LONG TERM GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3475	NOEC (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3476	NOEC (% EMERGENCE)	11/18/2013	09/01/2017	SC	SED	NE
3477	NOEC (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3482	IC25 (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
<b>Method Code: 10294754</b>		<b>Method Ref.: EPA 100.1 EPA/600/R-99/064 (10-DAY HYA A<sub>1</sub>)</b>		<b>Revision:</b>	<b>Date:</b>	
3210	10 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3215	10 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3220	10 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
<b>Method Code: 10294765</b>		<b>Method Ref.: EPA 100.4 EPA/600/R-99/064 (42-DAY HYA A<sub>1</sub>)</b>		<b>Revision:</b>	<b>Date:</b>	
3210	10 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3215	10 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3220	10 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3240	28 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3245	28 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE

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**TRAVERSE CITY MI 49686**  
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Analyte Code	Analyte Name	Effective Date	Expiration Date	Matrix	Category	Accr. Type
3250	28 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3270	42 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3275	42 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3280	42 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3285	42 DAY YOUNG/FEMALE (REPRODUCTION)	11/18/2013	09/01/2017	SC	SED	NE
3465	NOEC (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
3467	LOEC (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3468	LOEC (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3469	LOEC (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
3470	IC25 (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3472	IC25 (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3475	NOEC (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3477	NOEC (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3482	IC25 (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
<b>Method Code: 10294776</b>		<b>Method Ref.: EPA 100.3 EPA/600/R-99/064 (LUM VAR BIOC</b>		<b>Revision:</b>	<b>Date:</b>	
3255	28 DAY RECOVERY (WEIGHT)	11/18/2013	09/01/2017	SC	SED	NE
3265	4 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
<b>Method Code: 30001888</b>		<b>Method Ref.: ASTM 1706-95B (10-DAY HYA AZT)</b>		<b>Revision:</b>	<b>Date:</b>	
3210	10 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3215	10 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3220	10 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
<b>Method Code: 30001899</b>		<b>Method Ref.: ASTM 1706-95B (10-DAY CHIR DIL)</b>		<b>Revision:</b>	<b>Date:</b>	
3210	10 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3215	10 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3220	10 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
<b>Method Code: 30001946</b>		<b>Method Ref.: ASTM 1706-95B (42-DAY HYA AZT)</b>		<b>Revision:</b>	<b>Date:</b>	
3210	10 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3215	10 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3220	10 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3240	28 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3245	28 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3250	28 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE

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NELAP RECOGNIZED

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Analyte Code	Analyte Name	Effective Date	Expiration Date	Matrix	Category	Accr. Type
3270	42 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3275	42 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3280	42 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3285	42 DAY YOUNG/FEMALE (REPRODUCTION)	11/18/2013	09/01/2017	SC	SED	NE
3465	NOEC (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
3467	LOEC (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3468	LOEC (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3469	LOEC (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
3470	IC25 (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3472	IC25 (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3475	NOEC (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3477	NOEC (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3482	IC25 (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
<b>Method Code: 30001957</b>		<b>Method Ref.: ASTM 1706-95B (LONG-TERM CHIR DIL)</b>		<b>Revision:</b>	<b>Date:</b>	
3205	# EGGS/EGG CASE	11/18/2013	09/01/2017	SC	SED	NE
3210	10 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3215	10 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3220	10 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3225	20 DAY % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE
3230	20 DAY BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3235	20 DAY GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3312	AVERAGE DAY TO EMERGENCE	11/18/2013	09/01/2017	SC	SED	NE
3359	FEMALE/MALE RATIO	11/18/2013	09/01/2017	SC	SED	NE
3373	IC25 (% EMERGENCE)	11/18/2013	09/01/2017	SC	SED	NE
3465	NOEC (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
3466	LOEC (% EMERGENCE)	11/18/2013	09/01/2017	SC	SED	NE
3467	LOEC (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3468	LOEC (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3469	LOEC (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE
3470	IC25 (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3471	LONG TERM % SURVIVAL	11/18/2013	09/01/2017	SC	SED	NE

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3472	IC25 (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3473	LONG TERM BIOMASS	11/18/2013	09/01/2017	SC	SED	NE
3474	LONG TERM GROWTH	11/18/2013	09/01/2017	SC	SED	NE
3475	NOEC (GROWTH)	11/18/2013	09/01/2017	SC	SED	NE
3476	NOEC (% EMERGENCE)	11/18/2013	09/01/2017	SC	SED	NE
3477	NOEC (BIOMASS)	11/18/2013	09/01/2017	SC	SED	NE
3482	IC25 (SURVIVAL)	11/18/2013	09/01/2017	SC	SED	NE

*Bill Hall*  
GREAT LAKES 9/15/2016

Bill Hall  
NH ELAP Program Manager  
Issue Date: 9/15/2016

Matrix Legend: D=Drinking Water; N=Non-Potable Water; SC=Solid and Chemical Materials

Category Legend: MIC=Microbiology; MET=Metals; NMI=Non-Metal Inorganics; PRE=Preparation; VOC=Volatile Organic Compounds; SBN=SVOC-BNA; SHE=SVOC-Herbicides; SNO=SVOC-NOS; SPC=SVOC-PCB; SPE=SVOC-Pesticides; RAD=Radiochemistry; WET=Wet

Accreditation Legend: NE=NELAP; NH=NH State Certification; CE=State Certification; IN=Interim (NELAP); WI=Withdrawn; AP=Applied; RE=Revoked; SU=Suspended

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