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**To: Members of the Watchic Lake Association – 7/12/2014**  
**From: Eben Joslyn, Volunteer Lake Monitor/Water Quality Committee**  
**Subject: Current Lake Water Quality Status (Spring – Summer 2014)**

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The purpose of this letter is to discuss with you the current state of the lake, compare this with previous years, and provide some insight into how we can all continue to ensure that the water quality will remain in a positive state.

Based on the data collected for the first half of the monitoring season (June to July) the average depth of clarity for Watchic Lake is 3.6 – 4.4 meters. This data is based on Secchi disk readings collected by myself in accordance with the guidelines set forth by the Maine Volunteer Lake Monitoring Program. The range of readings to date was typical of prior year's readings, though slightly lower initially due to a persistent amount of pine pollen suspended within the water column. The pine pollen issue ran its course by the middle/end of June.

In June, lake water samples were collected from various locations within the lake and analyzed by Katahdin Laboratories for the presence of coliform bacteria. The results (from 3.1 coliform forming unit (cfu)/100mL to 29.2 cfu/100mL) were well below the maximum allowable density of 235 cfu/100mL. Additional samples, from around the lake, were collected and analyzed for nitrogen and phosphorus, which are common constituents of run-off into the lake. Total nitrogen and phosphorus results were very low, and similar to last year's results. Another round of these analyses will be conducted later in the summer.

As previously reported, in August 2013 the Watchic Lake Association (WLA) was notified by local authorities of a complaint regarding septic discharge to the lake. WLA members performed response activities that included discussions with local and state regulatory agencies, visual investigation of the alleged release, and lake water sampling activities. Lake water samples were

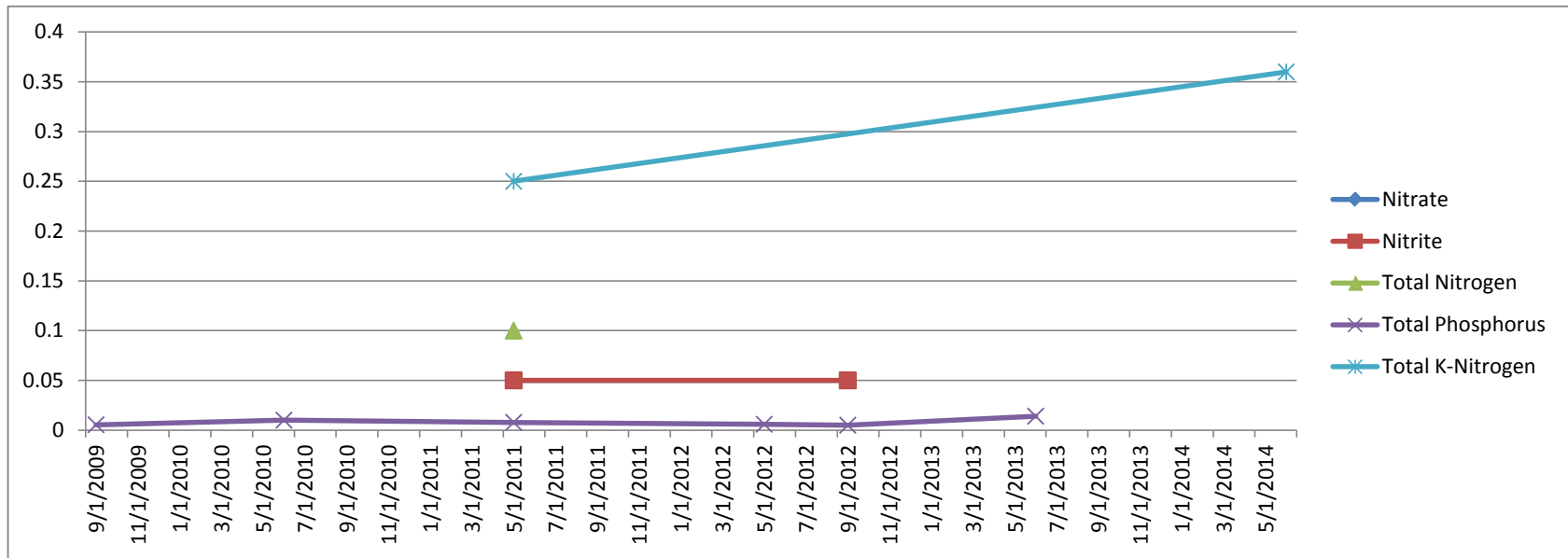


collected in the vicinity of the alleged release, as well as control locations for comparison, and analyzed by Katahdin Laboratories for the presence of coliform bacteria. All sample results were similar and did not indicate that a release to the lake had occurred. Upon further investigation, the complaint was determined to be associated with a dispute between residents and no threat to lake water quality was present. This incident provided an opportunity for WLA members to work with regulatory agencies, lake residents, and outside vendors to coordinate response activities. While this incident was a “false alarm” it valuable learning experience.

As has been noted in prior reports, the lake’s water quality is in a favorable condition and is supporting a diverse eco-system. The quality of the lake’s water has been evident by the variety and number of aquatic, amphibian, and avian species that call Watchic Lake home. Further assessment of lake water quality will be performed in the late summer of 2014. As always, I appreciate any help that others wish to give in ensuring the preservation of Watchic Lake and I am more than happy to help others find ways to do their part in this as well. Please feel free to contact me by phone at (207) 838-5557 or by e-mail at: [ejoslyn@gmail.com](mailto:ejoslyn@gmail.com). Thank you and I look forward to seeing you all on the lake.

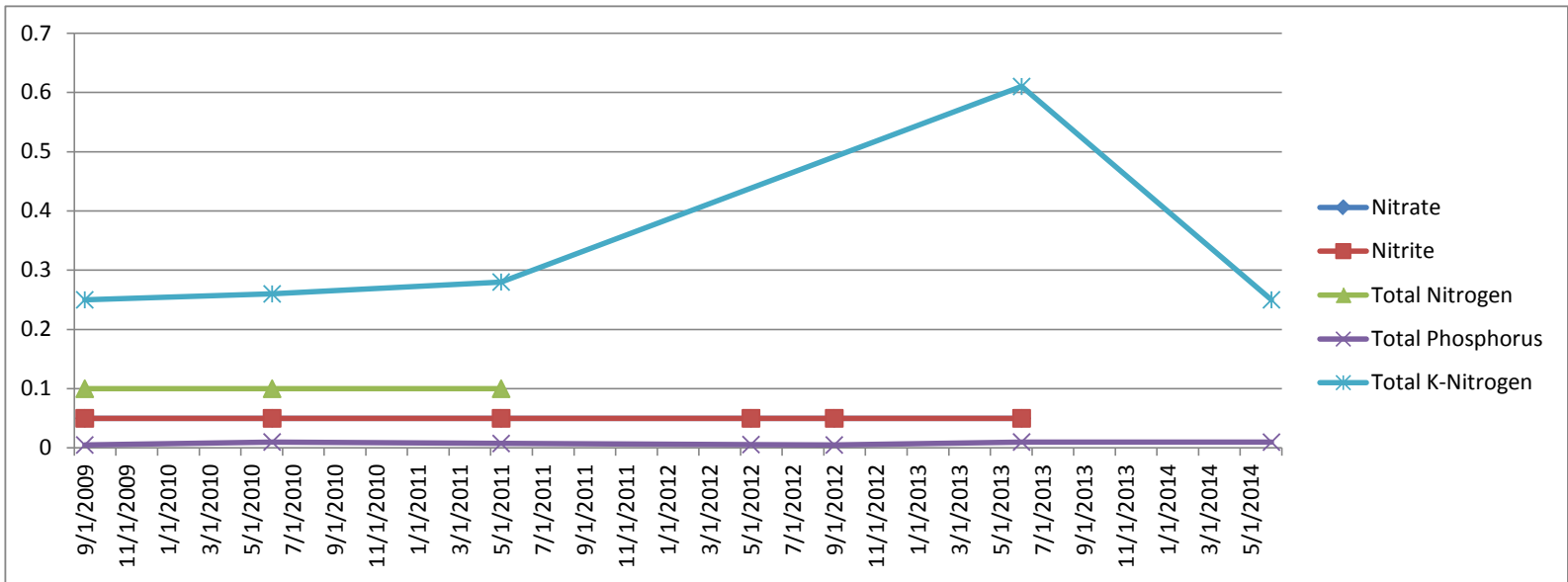
# Deep

Sample Date	Nitrate	Nitrite	Total Nitrogen	Total Phosphorus	Total K-Nitrogen	Total Coliform
9/23/2009				0.0054		<2
6/20/2010				0.01		2
5/14/2011	0.05	0.05	0.1	0.0078	0.25	<1
5/28/2012				0.0059		5.2
9/23/2012	0.05	0.05		0.005		5.2
6/9/2013				0.014		2
6/15/2014					0.36	3.1



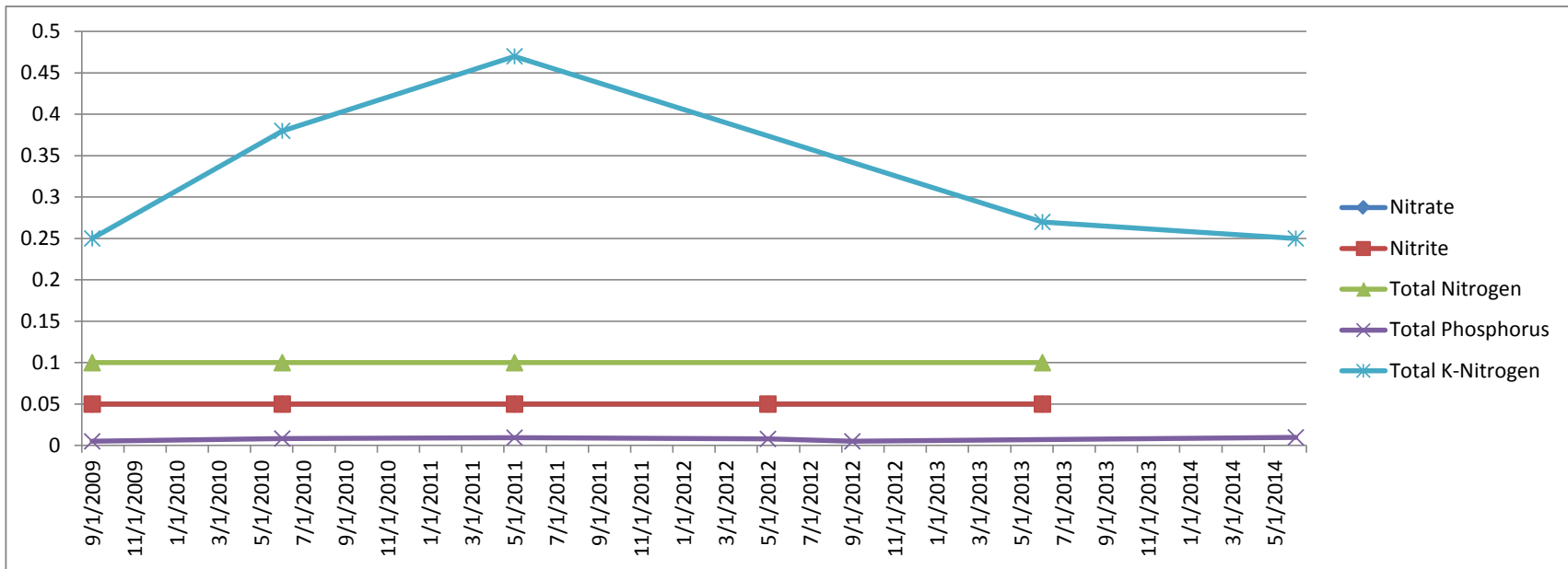
# Dam

Sample Date	Nitrate	Nitrite	Total Nitrogen	Total Phosphorus	Total K-Nitrogen	Total Coliform
9/23/2009	0.05	0.05	0.1	0.005	0.25	6
6/20/2010	0.05	0.05	0.1	0.01	0.26	2
5/14/2011	0.05	0.05	0.1	0.0075	0.28	1
5/28/2012	0.05	0.05		0.0057		6.3
9/23/2012	0.05	0.05		0.005		7.5
6/9/2013	0.05	0.05		0.01	0.61	6.3
6/15/2014				0.0098	0.25	16.8



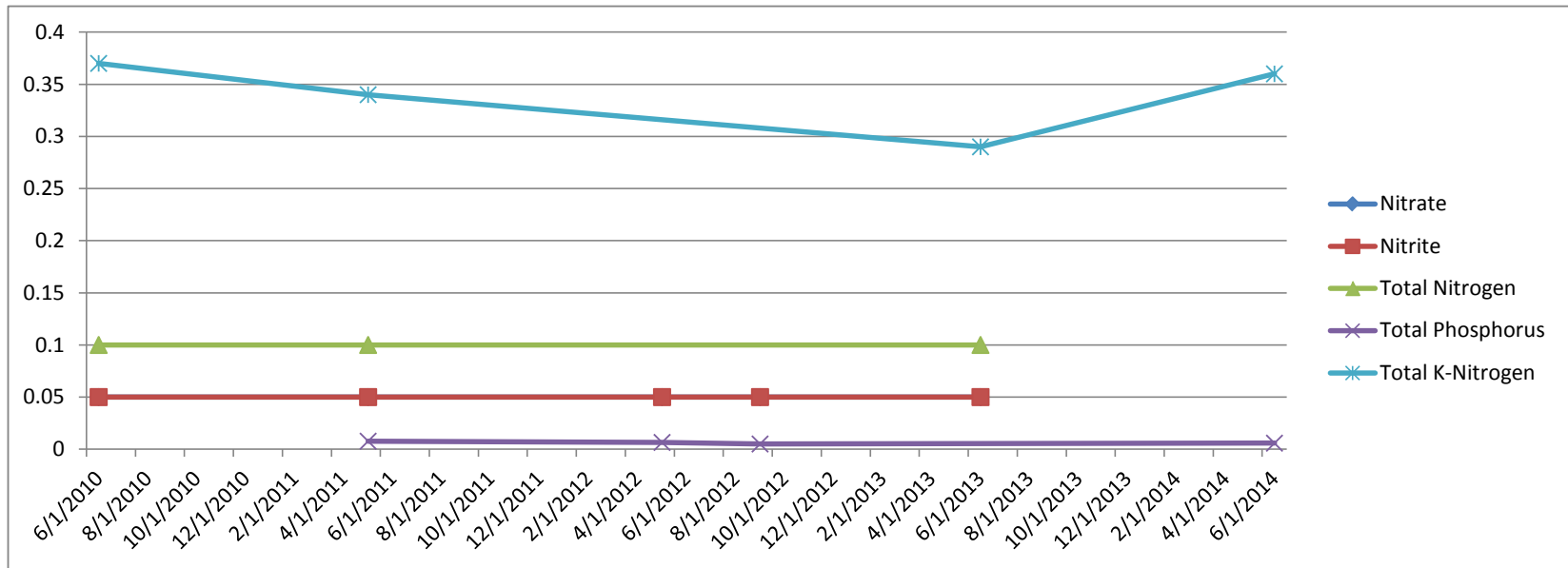
RD17

Sample Date	Nitrate	Nitrite	Total Nitrogen	Total Phosphorus	Total K-Nitrogen	Total Coliform
9/23/2009	0.05	0.05	0.1	0.005	0.25	10
6/20/2010	0.05	0.05	0.1	0.0084	0.38	20
5/14/2011	0.05	0.05	0.1	0.0095	0.47	2
5/28/2012	0.05	0.05		0.0079		31.5
9/23/2012				0.005		14.6
6/9/2013	0.05	0.05	0.1		0.27	
6/15/2014				0.0098	0.25	



RD5

Sample Date	Nitrate	Nitrite	Total Nitrogen	Total Phosphorus	Total K-Nitrogen	Total Coliform
9/23/2009	0.05	0.05	0.1		0.25	<2
6/20/2010	0.05	0.05	0.1		0.37	<2
5/14/2011	0.05	0.05	0.1	0.0077	0.34	<1
5/28/2012	0.05	0.05		0.0065		4.1
9/23/2012	0.05	0.05		0.005		9.7
6/9/2013	0.05	0.05	0.1		0.29	5.2
6/15/2014				0.0058	0.36	17.3



Sample Date	Total Coliform/E. Coli
9/23/2009	6
6/20/2010	10
5/14/2011	<1
5/28/2012	11
9/23/2012	6.3
6/9/2013	2
6/15/2014	10.8

Sample Date	Total Coliform/E. Coli
9/23/2009	12
6/20/2010	22
5/14/2011	1
5/28/2012	6.3
9/23/2012	5.2
6/9/2013	1
6/15/2014	29.2