

Stimulated Water

Acknowledgements

Table of Contents

Introduction

Ecological Impacts of Urbanization

Stream Pollutants

Run-off and Stormwater..

Septic Tanks

Caffeine

Nicotine

Study Site: Saratoga Lake Watershed

Skidmore Analytical Interdisciplinary Laboratory (SAIL)

Research Purpose

Methods and Protocol Development

Site Identification and Sample Collection

SAIL Protocol

High Performance Liquid Chromatograph (HPLC)

Ion Chromatograph (IC) on Liquid Chromatography Mode (IC)

Gas Chromatograph (GC) with Mass Spectrometer (GC)

Suggestions for Future Research

References

Appendix A: *Methods for Assessing Changes in Fish Foraging Habits after Exposure to Caffeine and Cotinine*

Appendix B: *Guide for Conducting Novel Contaminant Research in the Skidmore Analytical Interdisciplinary Laboratory (SAIL)*

Introduction

Ecological Impacts of Urbanization

Caffeine

Methods and Protocol Development

Site Identification and Sample Collection

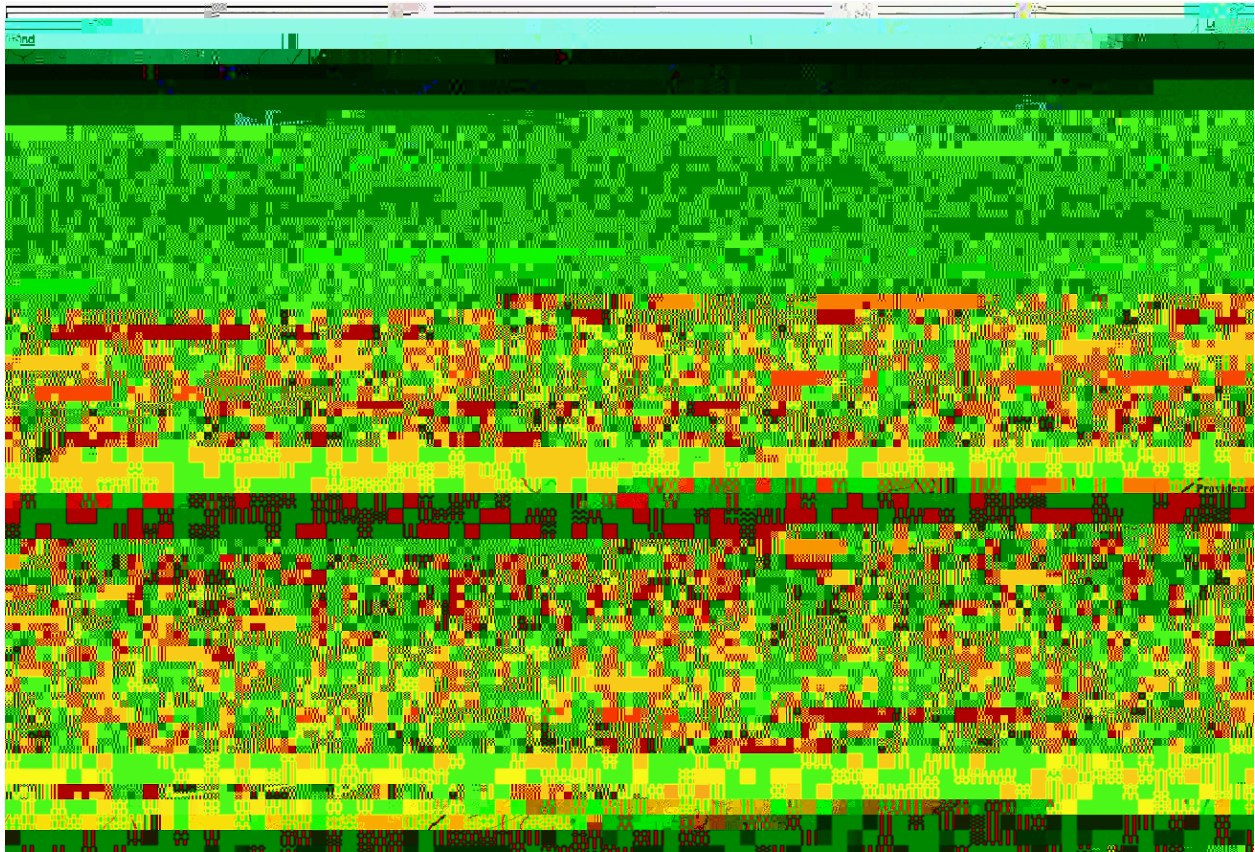


Figure 1.

High Performance Liquid Chromatograph (HPLC)

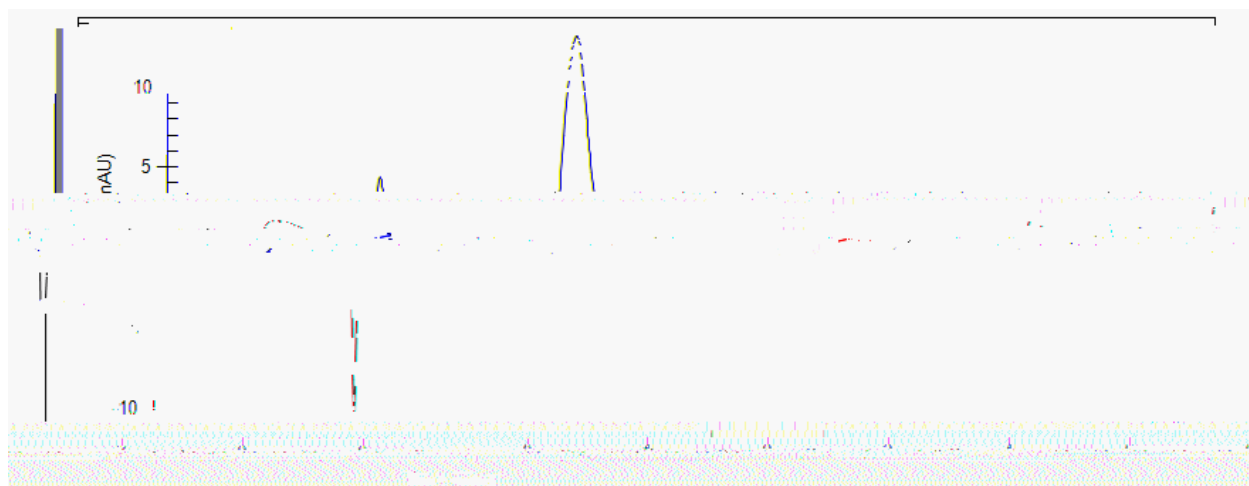


Figure 2.

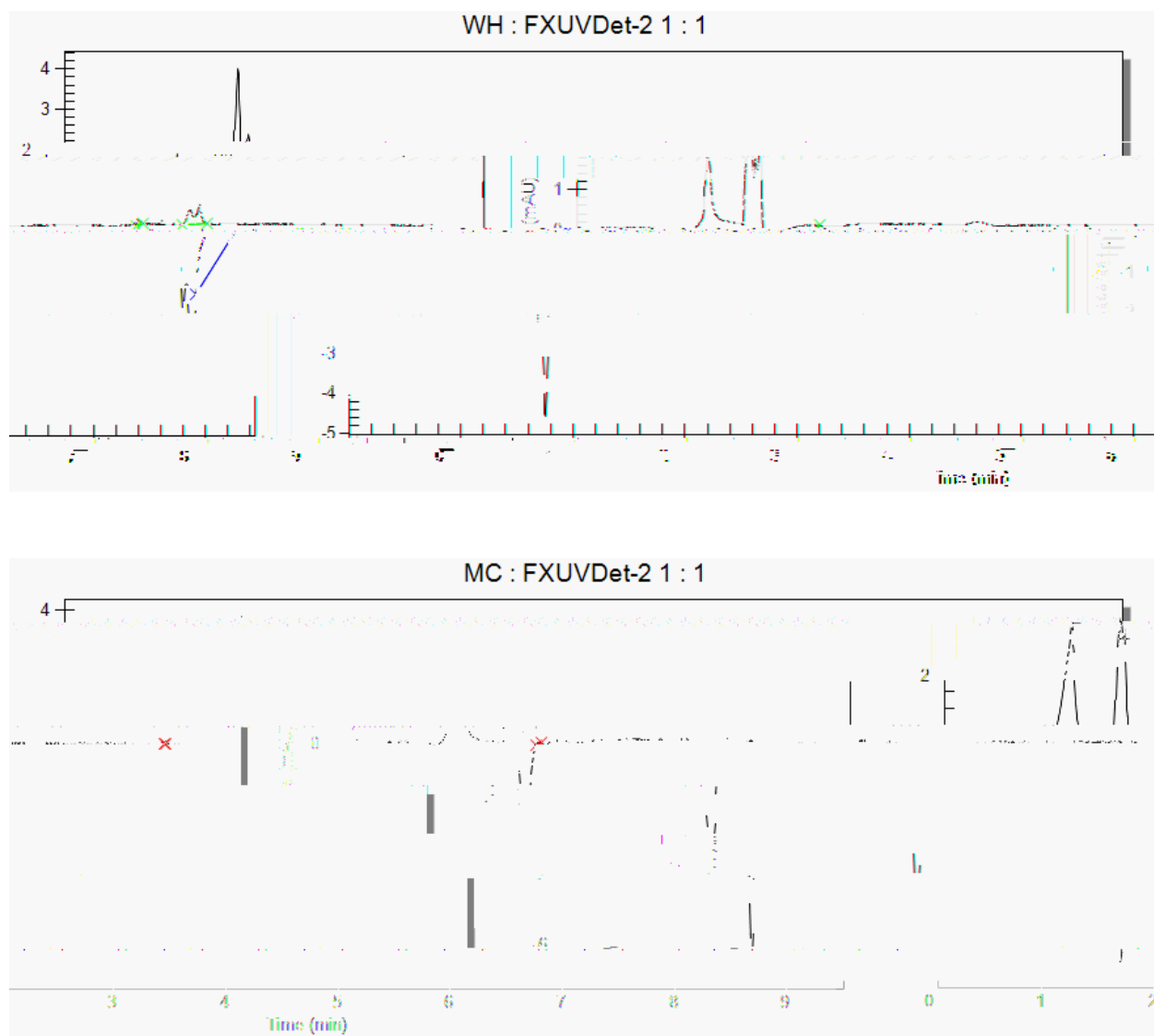


Figure 3.

Ion Chromatograph (IC) on Liquid Chromatography Mode

Figure 4.

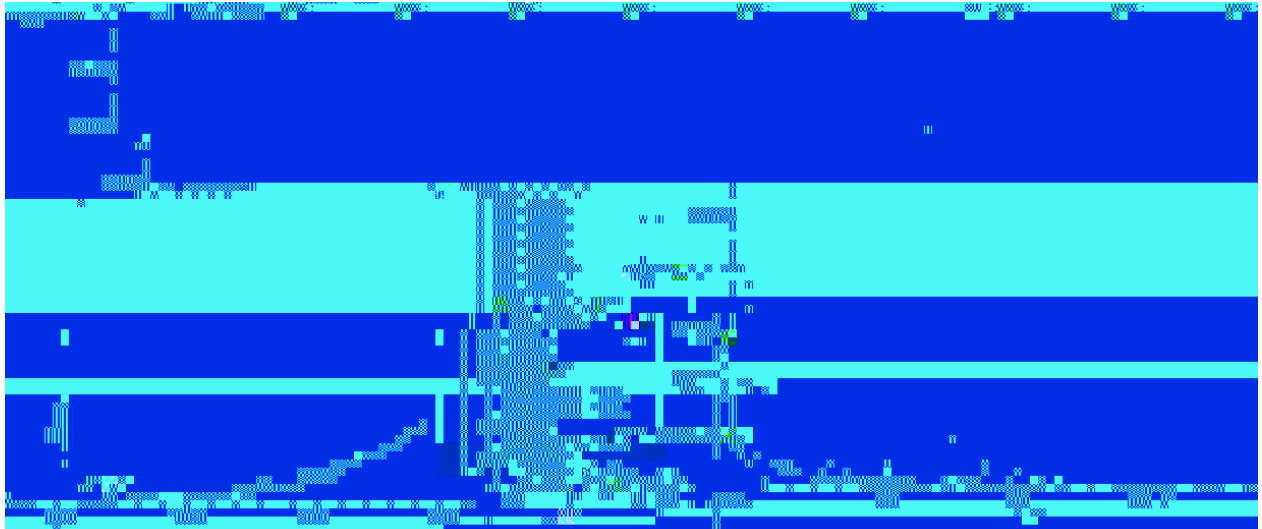


Figure 6.

Suggestions for Future Research:

99(14)

319:

75(3):

55:

104(21):

36 (6):

328 (1-3)

Moore, M. T., Greenway, S. L., Farris, J. L. and Guerra, B. 2007. Assessing caffeine as an emerging environmental concern using conventional approaches. Arch. of Environmental Contamination and Toxicology **54 (1)**: 31-35.

6:

42:

1(1):

23 (5):

Appendix A

Methods for Assessing Changes in Fish Foraging Habits after Exposure to Caffeine and

