



## Report of Algae Analysis

Date Collected: 7/25/2014  
Date Analyzed: 8/1/2014  
Collector: Bill Bailey

### Generic Analysis

| Sample ID | Location     | Generic Richness | Dominant Form  | PPI Rating | Cyanobacteria Present |
|-----------|--------------|------------------|----------------|------------|-----------------------|
| 14-126-B1 | Hadlock Pond | 22               | Cladophora sp. | 15         | Mycrocystis sp.       |

Forms Identified: Cladophora sp, Cocconeis sp, Cosmarium sp, Cyclotella sp, Cymbella sp, Diatoma sp, Epithemia sp, Fragilaria sp, Frustulia sp, Gomphonema sp, Melosira sp, Myrocystis sp (very few), Navicula sp, Nitzschia sp, Rhopalodia sp, Scenedesmus sp, Spirogyra sp, Stauroneis sp, Synedra sp, Tabellaria sp, Tetrastrum sp. and a very few cells of Ankistrodesmus sp.

Notes on Dominate Form: *Cladophora sp. Is generally noted in response to sources of enrichment. Can cause nuisance issues when dead alga wash up on beaches and shorelines.*

**Results submitted by:** Corrina A. Parnapy

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EPA Alternative Preparation Technique utilized.

PPI = Palmer Algae Pollution Index (Palmer 1969)

*Palmer Algae Pollution Index:* A specific group of algae is associated with organic pollution. Algae are assigned a pollution index value of 1-6, when analyzed and identified these values are recorded and totaled. A score of 20 or more is regarded as confirmation of high organic pollution present. A score of 15-19 indicates probable organic pollution, while a score of 10-14 indicate lower levels of organic pollution present. Scores under 10 normally indicates clean water.

*Cyanobacteria:* (Blue-green Algae) are of greater concern than other forms of algae, as they can under the right conditions produce toxins and form toxic blooms. Cyanobacteria of concern include: *Microcystis*, *Anabaena* and *Aphanizomenon*. Excessive growth of blue-green algae (bloom) can discolour the water and cause health problems for humans, wildlife and pets.