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SePRO Lab
Water Diagnostics for Lakes & Ponds

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## SeSCRIPT Analysis Report: Palmer Lake

**Company:** Palmer Lake Beach Club
**Address:** PO Box 291 Lakebay, WA. 98349
**Contact Person:** Robert Perry
**Phone:** (714)-345-7745
**Email:** contact@palmerlakebeachclub.com

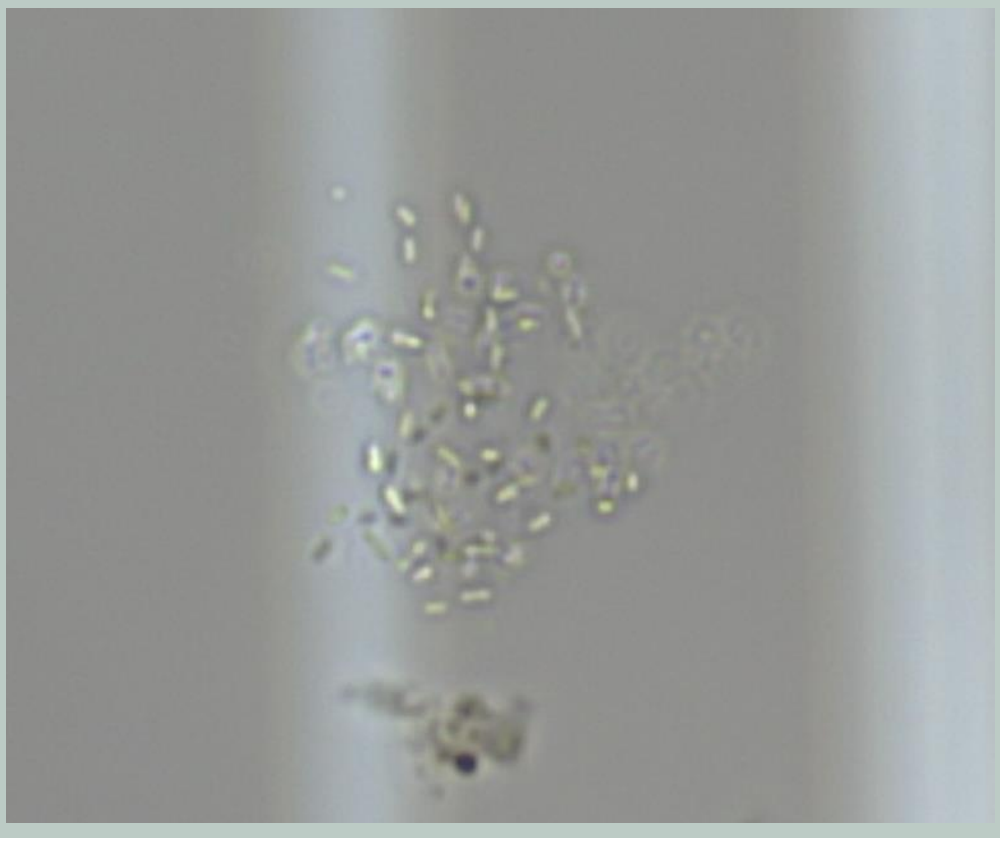
**Project Name:** Aug 2025 Lake Algae Analysis
**Surface Area:** 13.47 acres
**Average depth:** NA
**Date Algae Sample Received:** 8/29/2025
**SeSCRIPT Analysis Performed:** HAB Alert Bundle
**eCOC:** 19183

### Algae ID Results

Palmer Lake

| Identification | Classification | Description |
|---|---|---|
| *Aphanothece* sp. | Cyanophyta- Blue-green algae | Colonial, planktonic, potential toxin producer |

No other cyanobacteria observed



## Nutrient Results

Palmer Lake

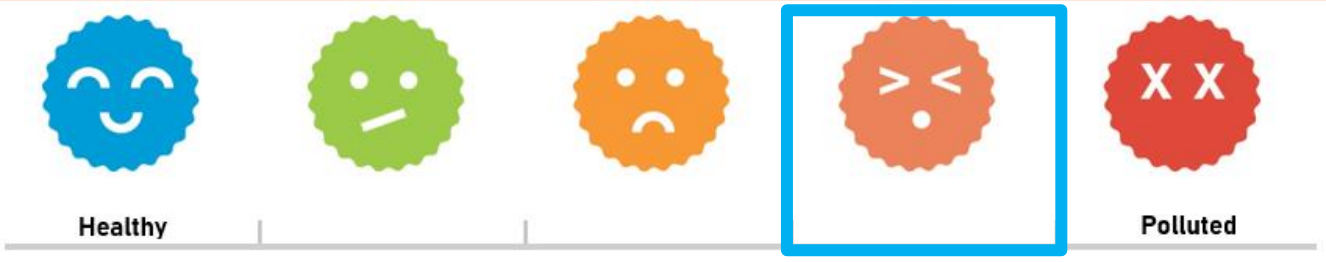
| Analysis | Measurements | Description |
|---|---|---|
| Total Phosphorus (µg/L) | 87.1 | High amount: Eutrophic |
| Free Reactive Phosphorus (µg/L) | 5.6 | Low |

**Phosphorus:** Essential nutrient often correlating to growth of algae in freshwaters.

**Total Phosphorus (TP)** is the measure of all phosphorus in a sample as measured by persulfate strong digestion and includes: inorganic, oxidizable organic and polyphosphates. This includes what is readily available, potential to become available and stable forms.
*12 µg/L oligotrophic; 12-24 µg/L mesotrophic; 25-96 µg/L eutrophic; > 96 µg/L hypereutrophic*

**Free Reactive Phosphorus (FRP)** is the measure of inorganic dissolved reactive phosphorus. ($PO_4^{-3}$, $HPO_4^{-2}$, etc.). This form is readily available in the water column for algae growth.

## Waterbody Health Summary and Action Plan




Palmer Lake results suggest your ponds water quality is on its way to polluted. The algae type can be managed with a number of algaecides, such as Captain XTR, SeClear, or Cutrine Plus. Phosphorus pollution can support harmful algal populations. To mitigate phosphorus pollution EutroSORB WC is recommended. For site specific recommendations, consider Algae & WQ Baseline Bundle Plus for future monitoring of your waterbody or reach out to your SePRO Technical Specialist.