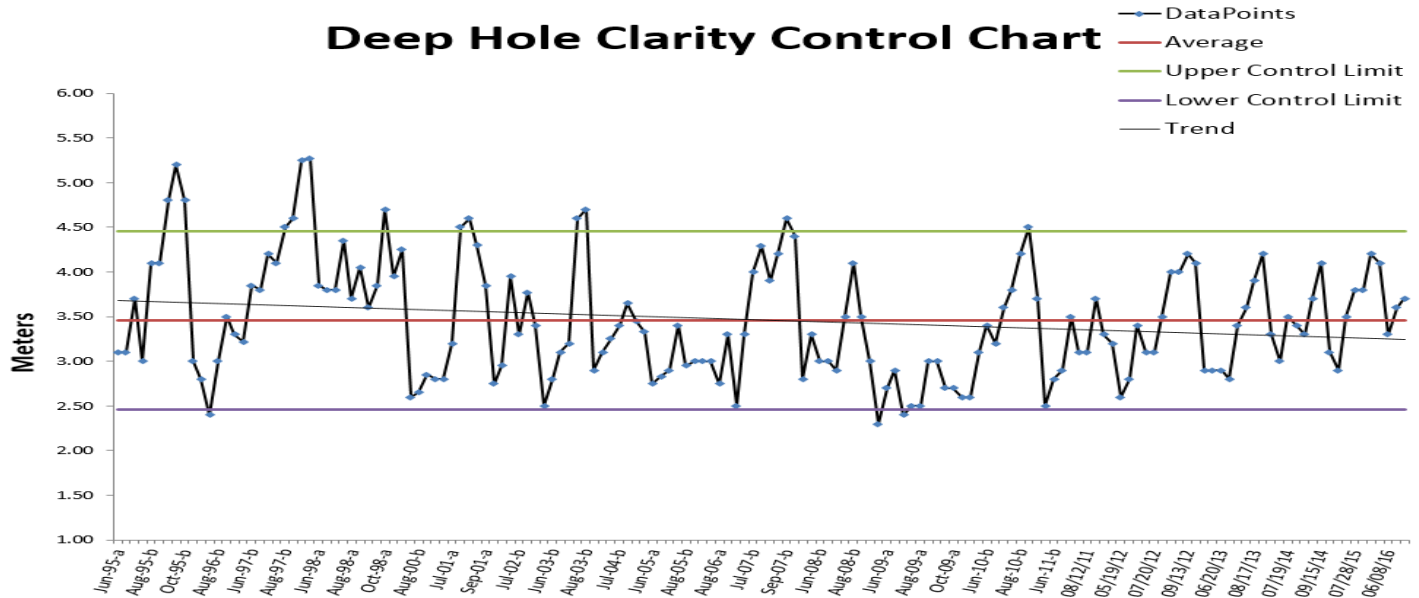
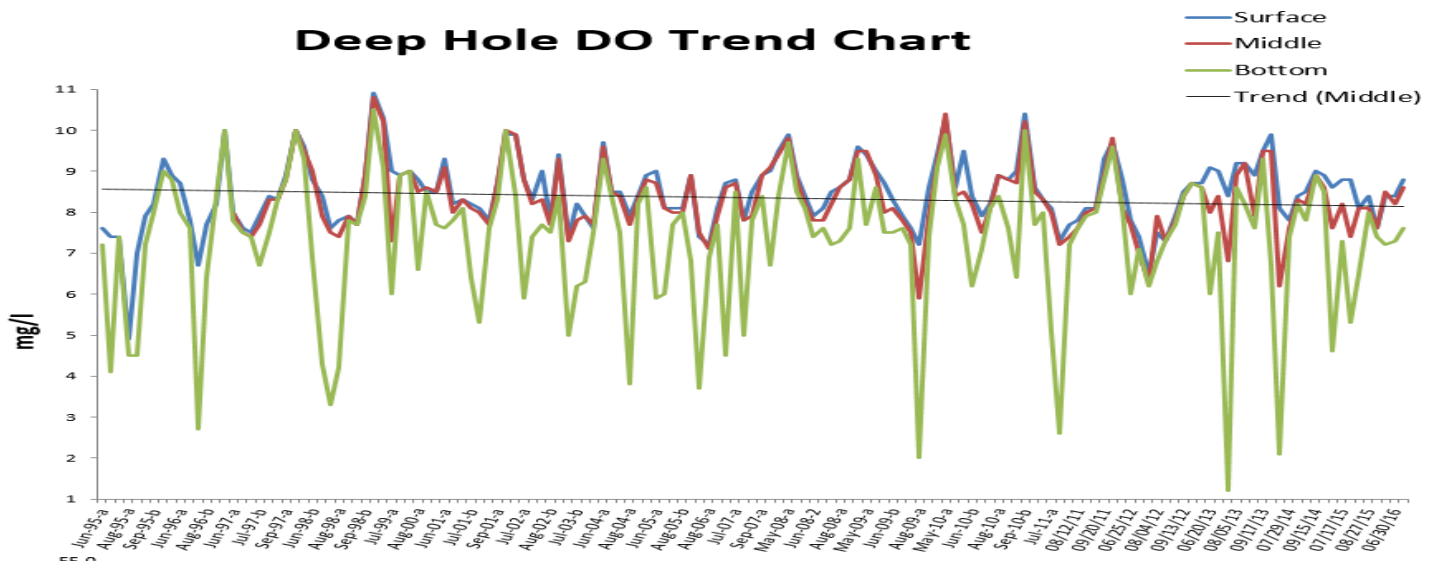


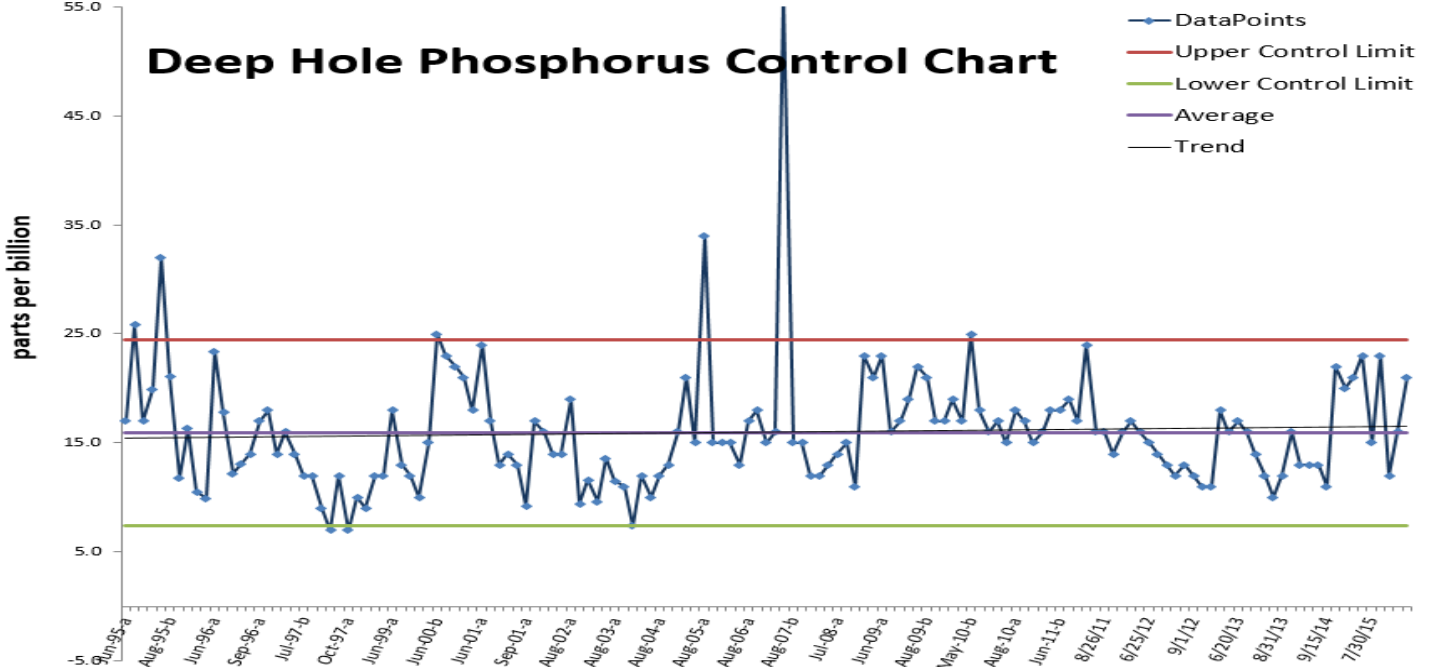
Deep Hole Clarity Control Chart



Deep Hole DO Trend Chart



Deep Hole Phosphorus Control Chart



What do the water tests mean?

Clarity: the higher the better

- ◆ Measure of distance that an object can be viewed under the water from the surface of the lake. Factors affecting clarity include recent rainfall, runoff, algae, silt and water color.
- ◆ 2015 results are improved for a third straight year, yet historically we still have an overall downward trend.
- ◆ Low clarity in Pushaw Lake may be favorable, as it inhibits light to the bottom, which is necessary for algae growth. New information indicated that it may also bind some of the phosphorus, reducing available phosphorus for algae blooms.

Dissolved Oxygen (DO): the higher the better

- ◆ Measure of temperature and amount of oxygen dissolved in water at 1 meter increments top to bottom. Factors affecting DO include lake mixing (seasonal turnovers), algae growth, and stratification.
- ◆ 2015 results continue to show healthy levels of oxygen in the water, consistent with historical ranges. For the second consecutive year we experienced significant stratification in mid July, with DO levels at the bottom extremely low. It cleared up following test date.

Phosphorus: the lower the better

- ◆ Measure of phosphorus content in the water. Factors affecting phosphorus levels include rainfall/runoff, faulty septic systems, lakeside hygiene, shoreline buffer removal, etc.
- ◆ 2015 numbers were the highest, averaging 19.0 ppb, since 2009, but are still statistically “in control”. These phosphorus levels in the mid teens (parts per billion) remain high enough to support an algae bloom.

Do You Like Mowing?

Most of us don't enjoy mowing, and the Lake does not enjoy your lawn, either. Have you ever considered replacing the grass on your waterfront, which allows damaging runoff into the lake, with a shallow, aesthetic buffer? There are lots of beautiful examples out there, and plenty of resources to help guide you in transforming your shorefront from a phosphorus contributor to a phosphorus filter. Contact GPLA for more information.