



Results From Citizen Monitoring In South Bethany's Canals 2008, 2009, 2010

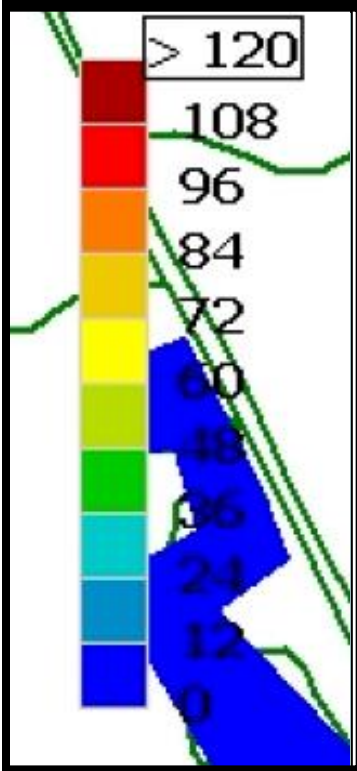
- Our Dead End Canals Do Not Get Flushed By The Tides
- The Water Testing Program
- Dissolved Oxygen 2008, 2009, 2010
- Bacteria 2008, 2009, 2010
- Dissolved Inorganic Nitrogen 2008, 2009, 2010
- Ammonia Levels 2008, 2009, 2010
- Dissolved Inorganic Phosphorous 2008, 2009, 2010
- Nitrite Levels 2008, 2009, 2010
- Total Suspended Solids 2008, 2009
- Chlorophyll a 2008, 2009

What we put in our canals stays there for many months.



South Bethany Canals Flushing Study – *Entrix* 2005 – Shows That There Is Essentially No Flushing In The Canals Far From Snap Gut.

Residence Times in Days



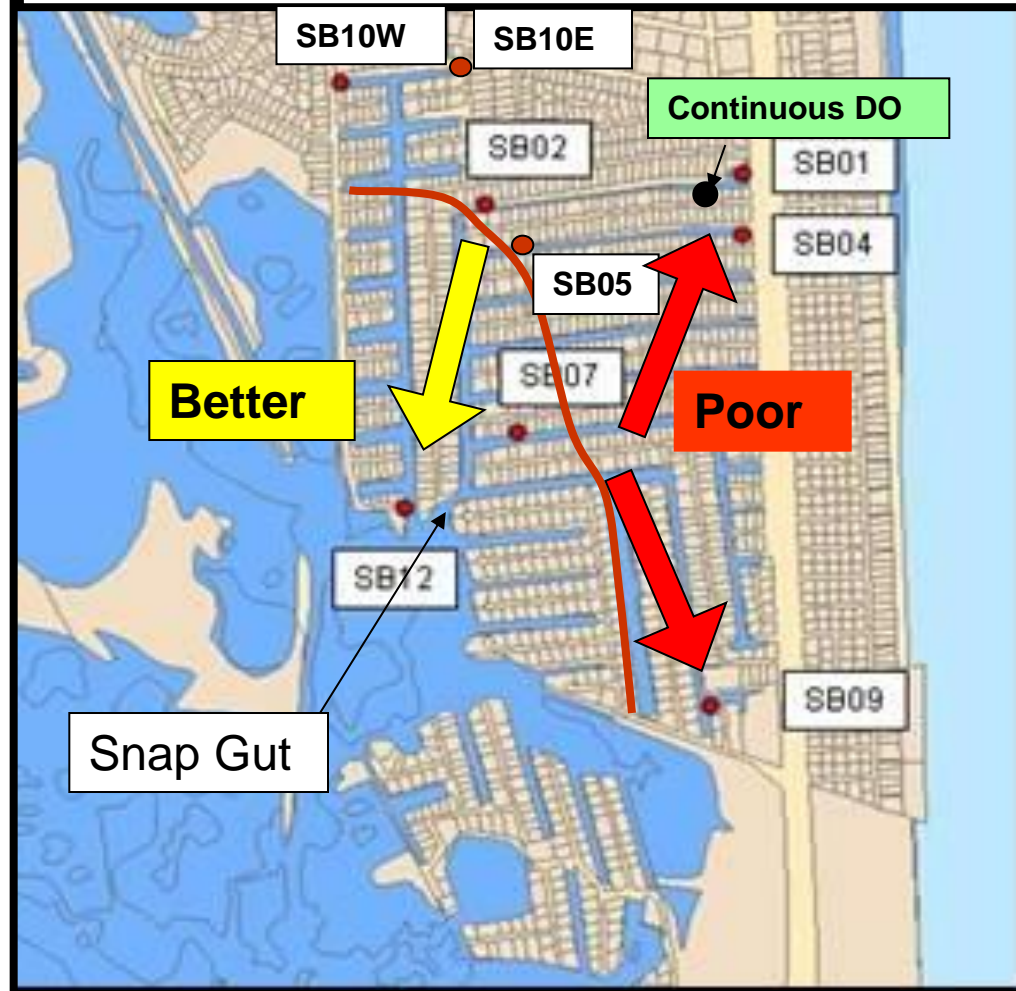
Residence time is defined as the time it takes to reduce a concentration by 36.79%

Residence times for areas far from snap gut are well over 3 months



Dave Wilson is Leading a Group to Monitor Water Quality in the South Bethany Canals

Testing Locations



Quantities to be monitored:

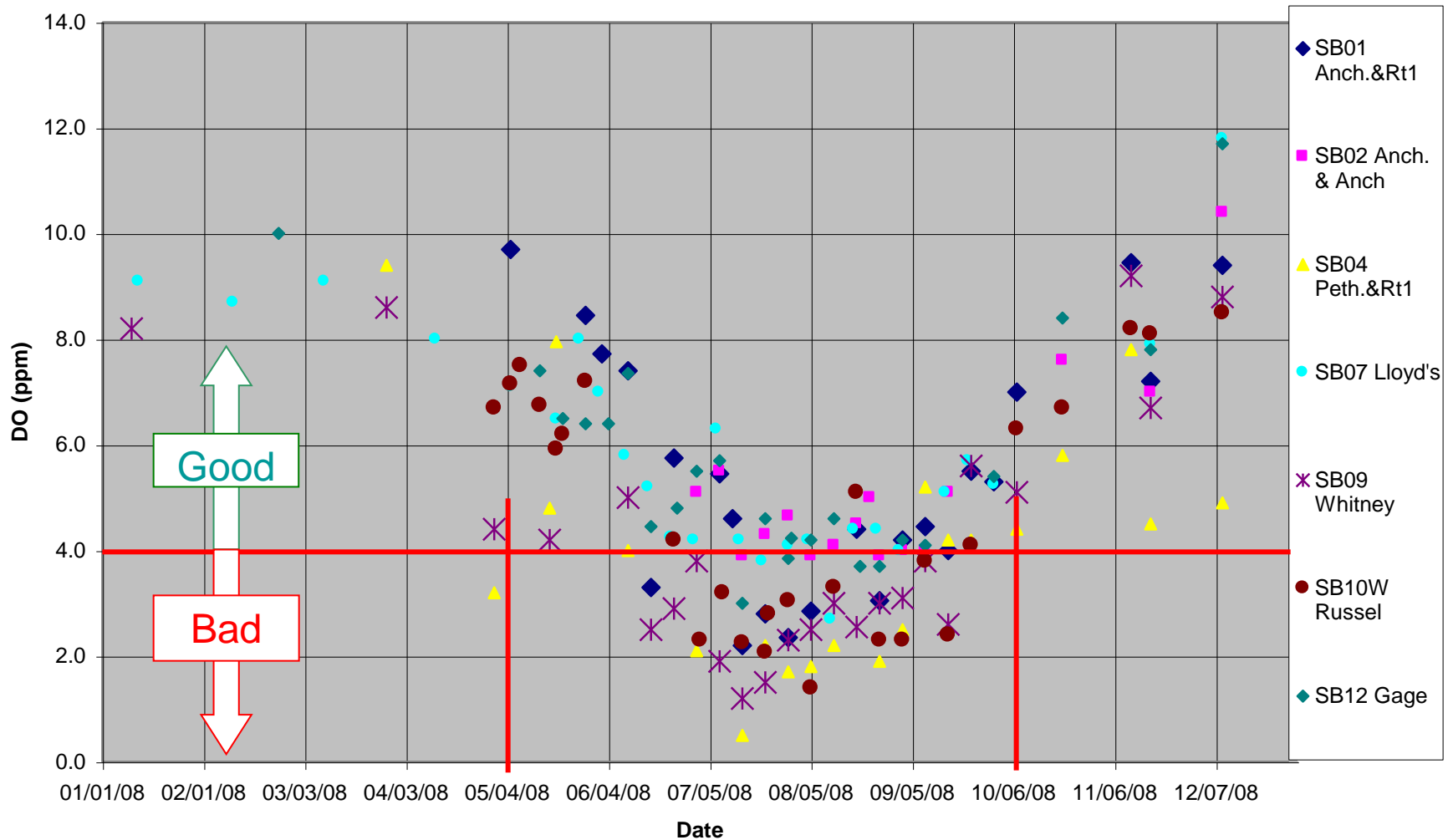
- For “Fishable” Waters
 - Dissolved Oxygen
 - Water Temperature
 - Salinity
 - Nitrogen and Phosphorus
 - Secchi Depth
- For “Swimmable” Waters
 - Bacteria
- Storm Water Influence
 - Collect accurate local rain data

The farther removed from Snap Gut, the poorer the quality of water.



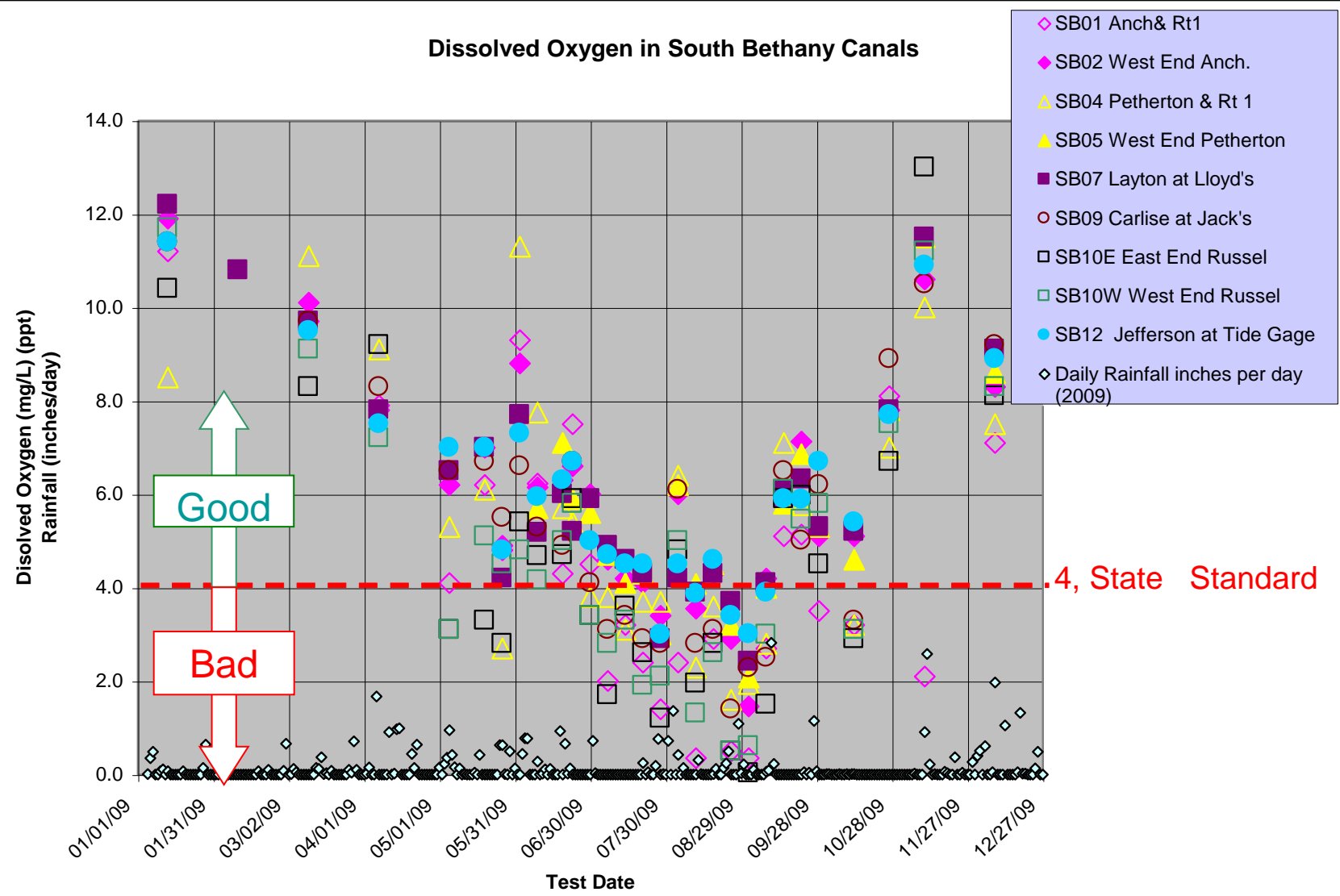
2008 DO Levels in South Bethany Canals – The DO Is Too Low In The Summer

Dissolved Oxygen (ppm)
South Bethany Canals





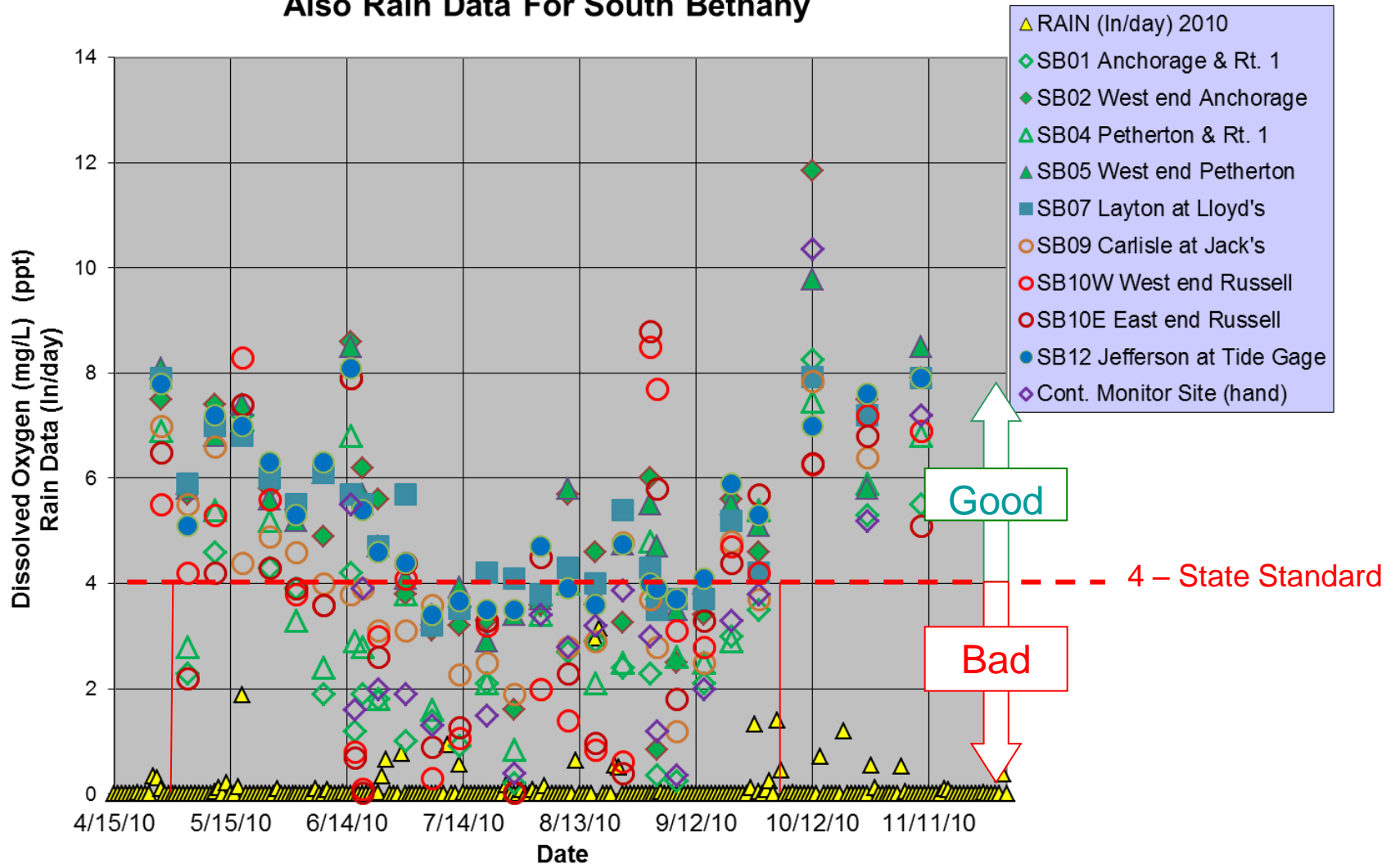
2009 DO Levels in South Bethany Canals – The Unfilled Markers Are Furthest From Snap Gut





2010 DO Levels in South Bethany Canals – The Unfilled Markers Are Furthest From Snap Gut

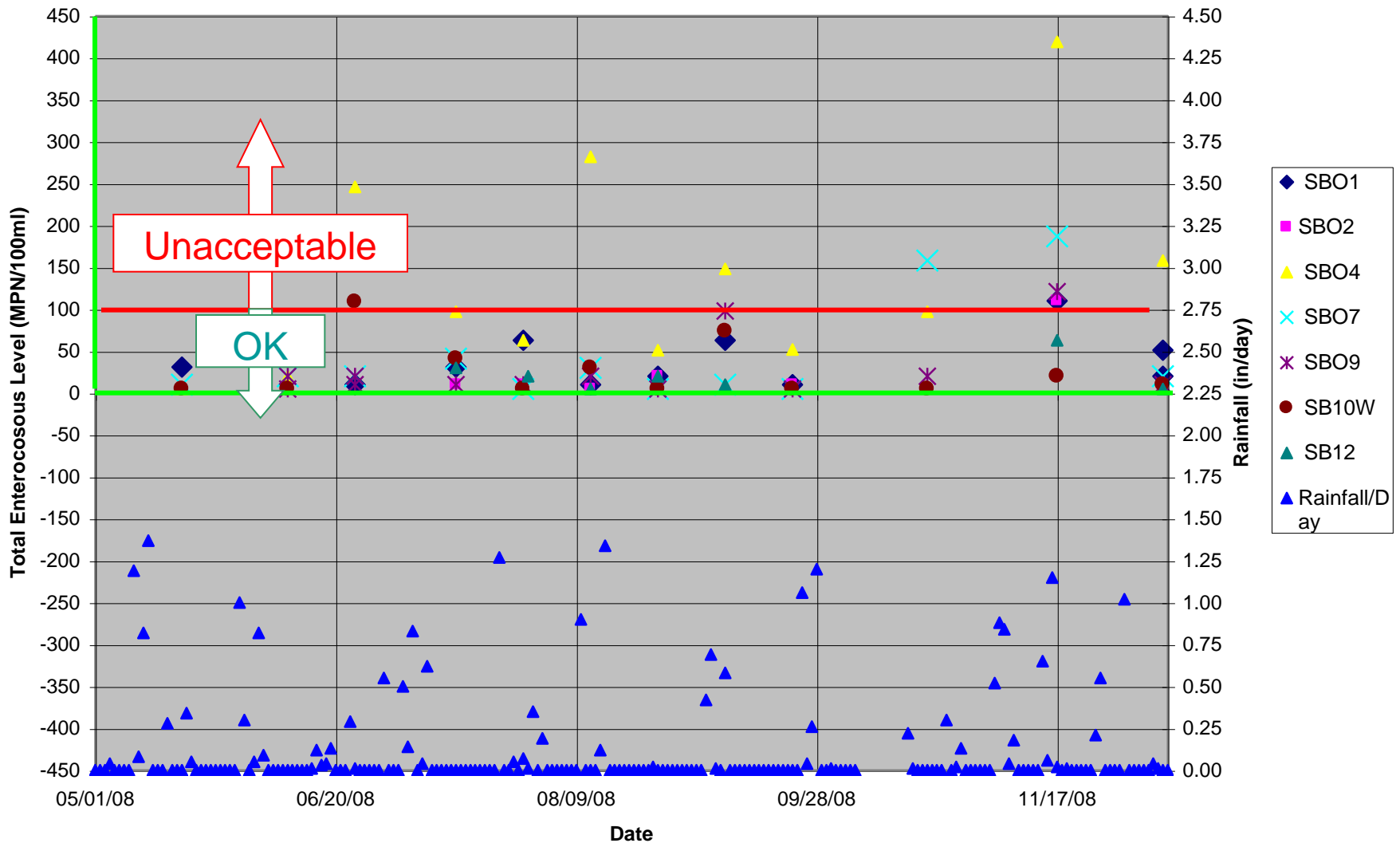
DO, Ten Locations In South Bethany,
Also Rain Data For South Bethany





2008 Bacterial Levels in South Bethany Canals

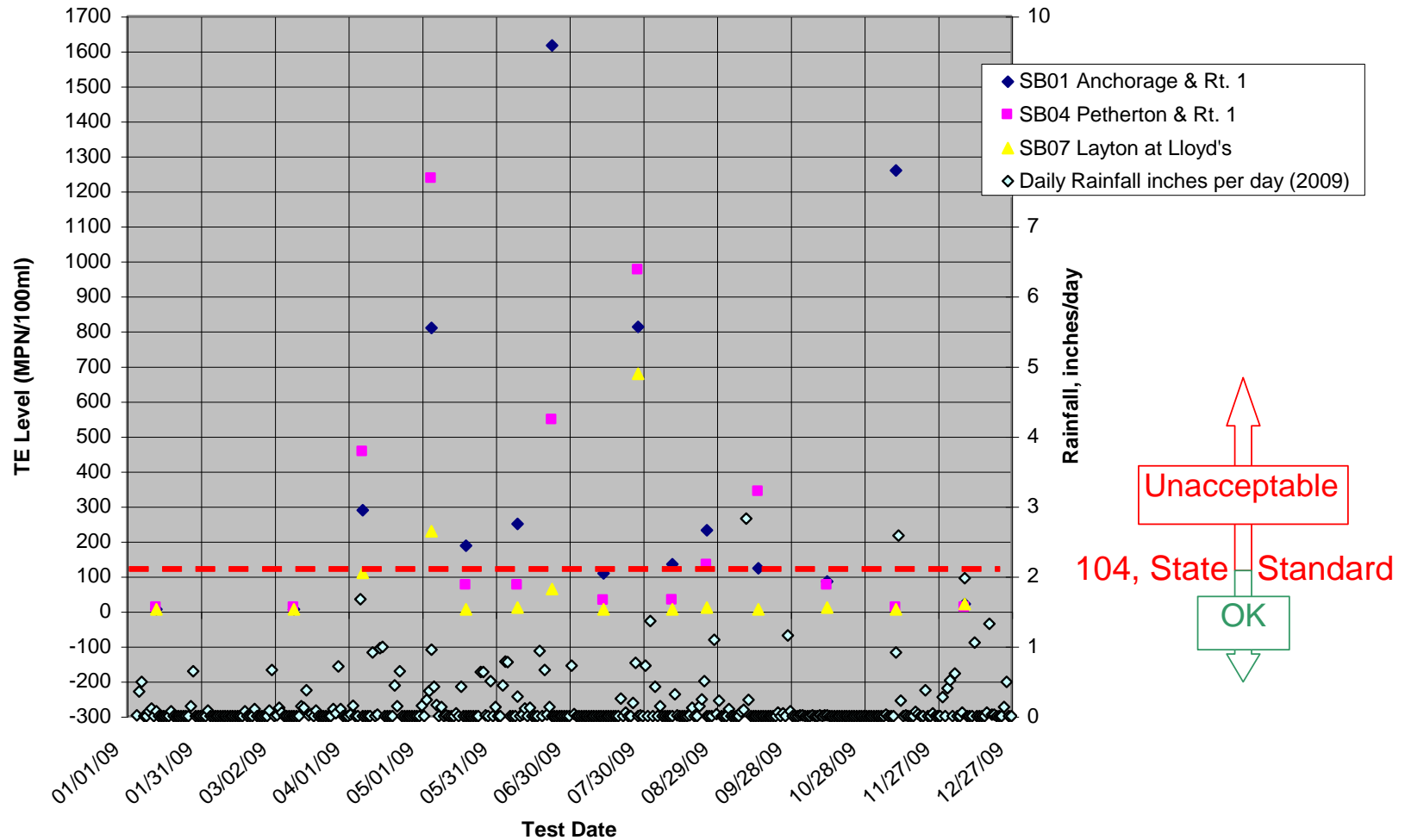
Total Enterococcus (MPN/100ml)
And Daily Rainfall





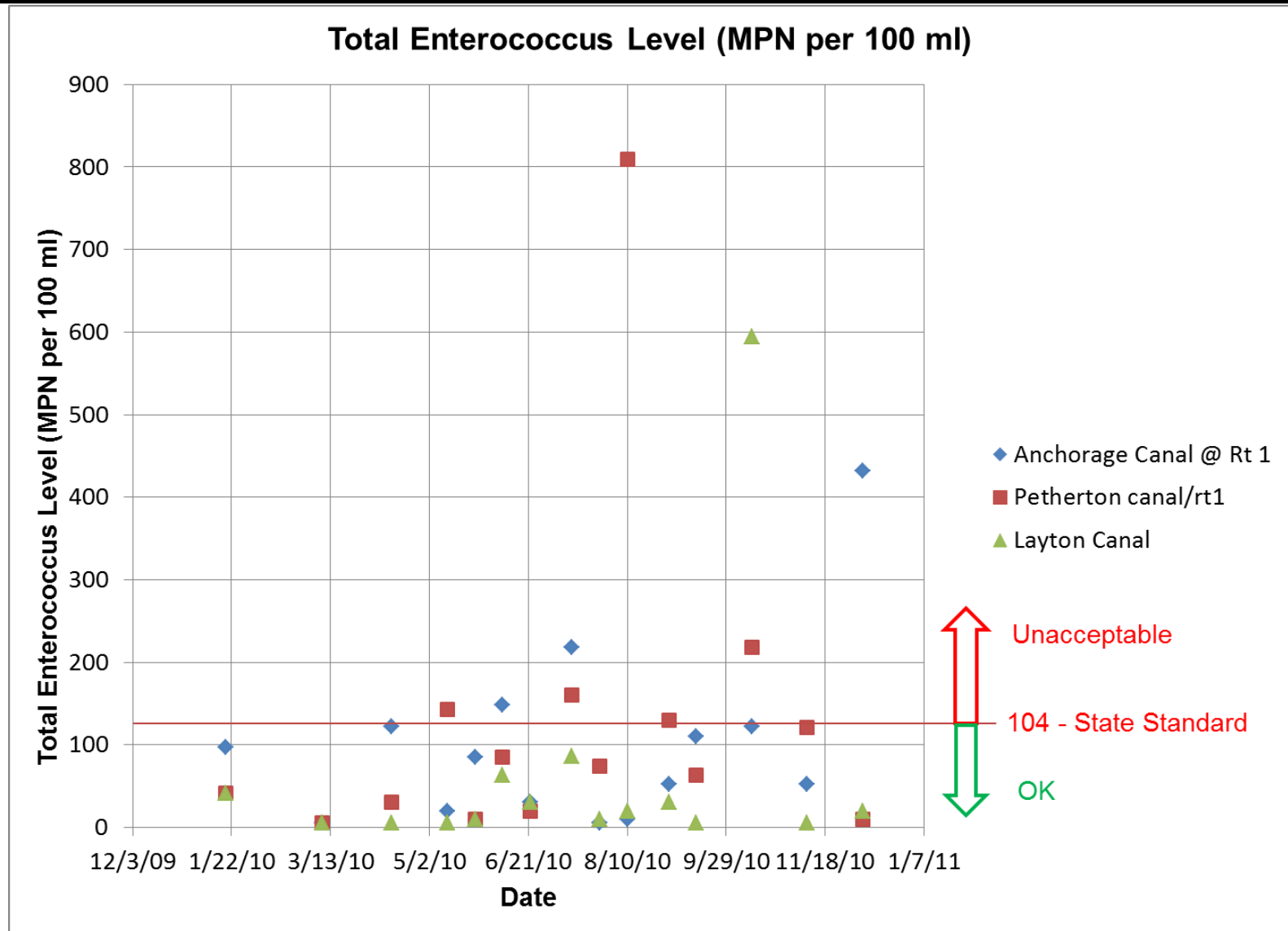
2009 Bacterial Levels in South Bethany Canals – The Further From Snap Gut – The Higher The Bacteria Levels

Total Enterococcus (TE) Level in South Bethany Canals





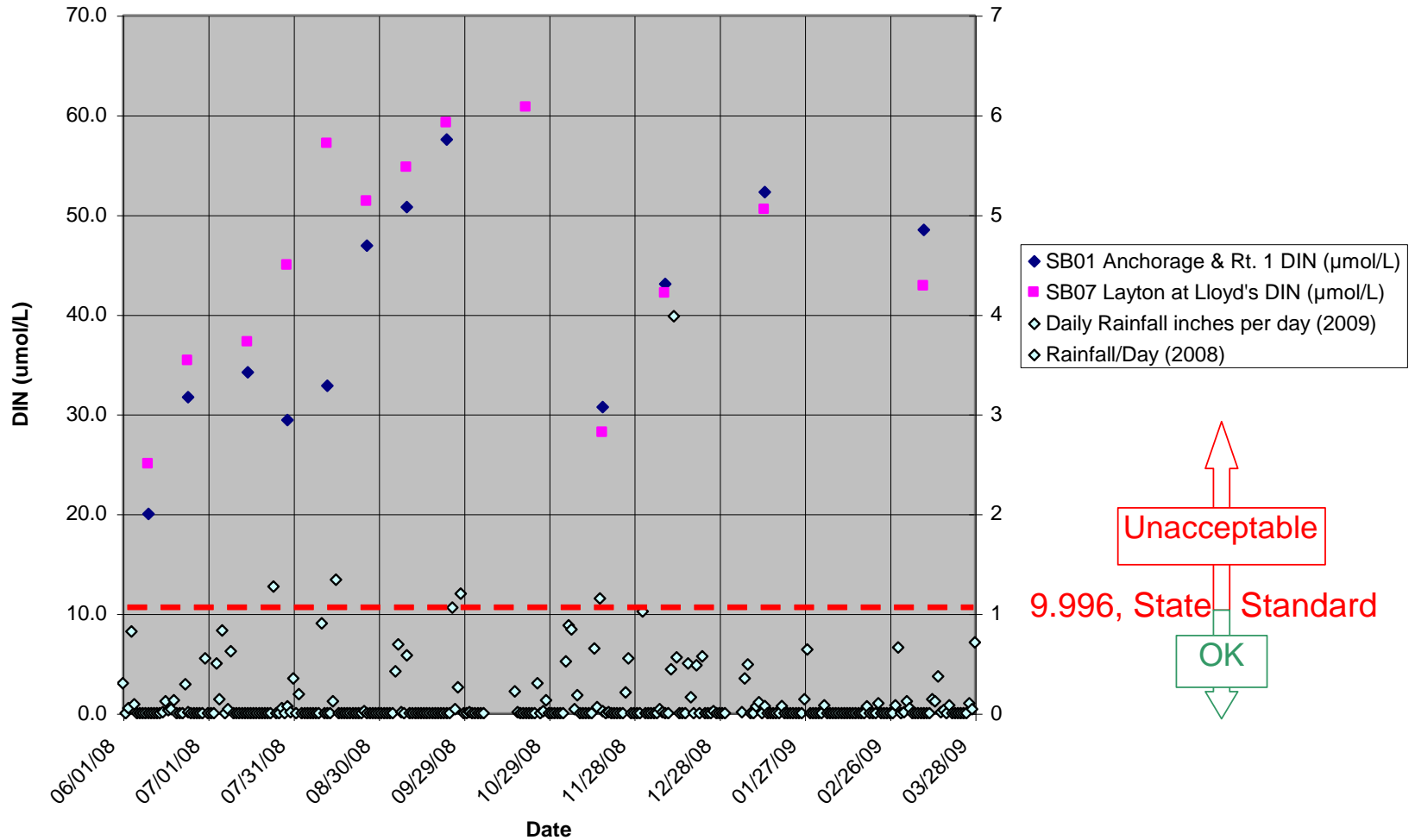
2010 Bacterial Levels in South Bethany Canals – The Further From Snap Gut – The Higher The Bacteria Levels





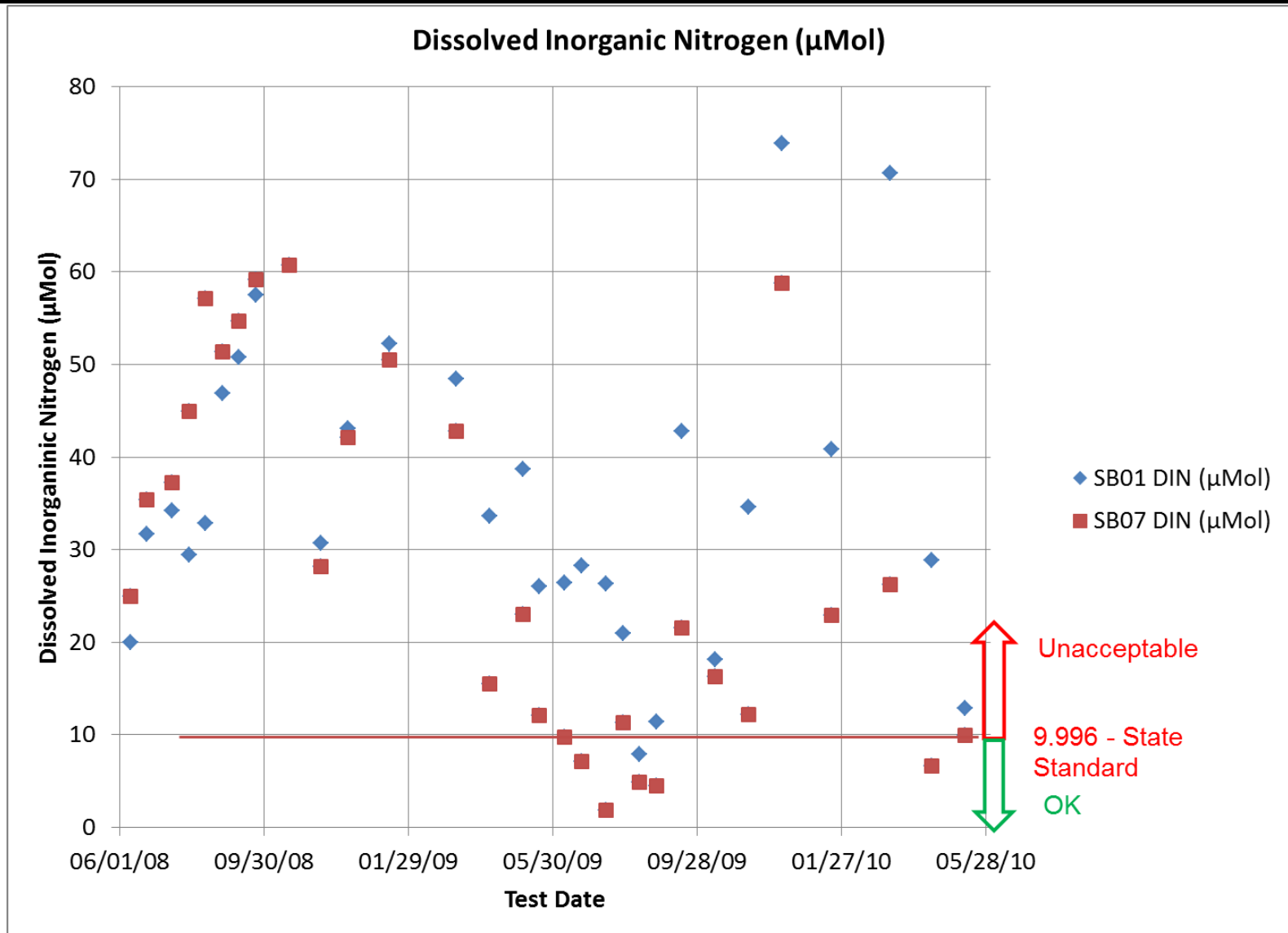
2008, 2009 Dissolved Inorganic Nitrogen Too High Everywhere

Dissolved Inorganic Nitrogen (DIN) in South Bethany Canals



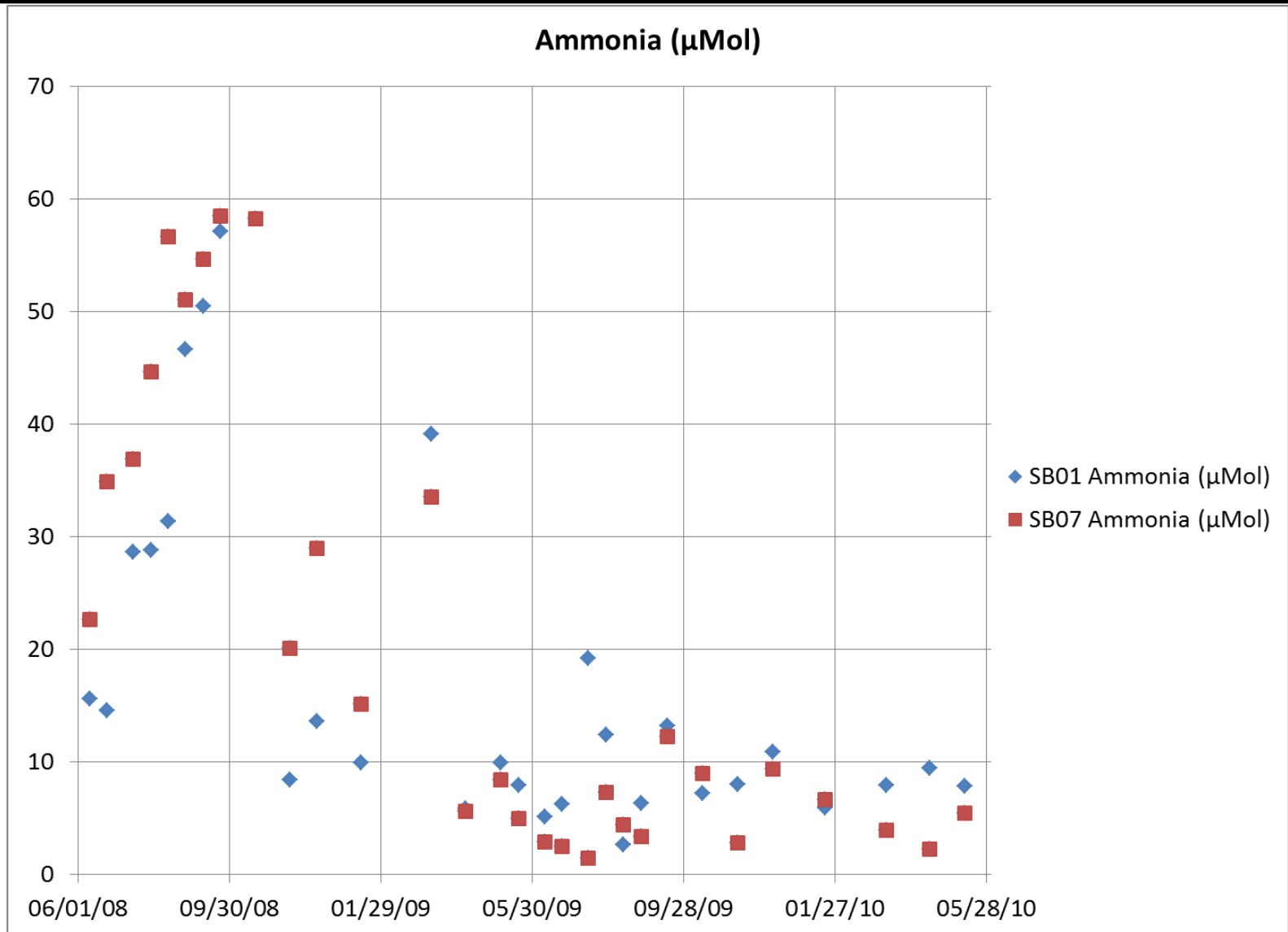


2008, 2009, 2010 Dissolved Inorganic Nitrogen Too High Everywhere



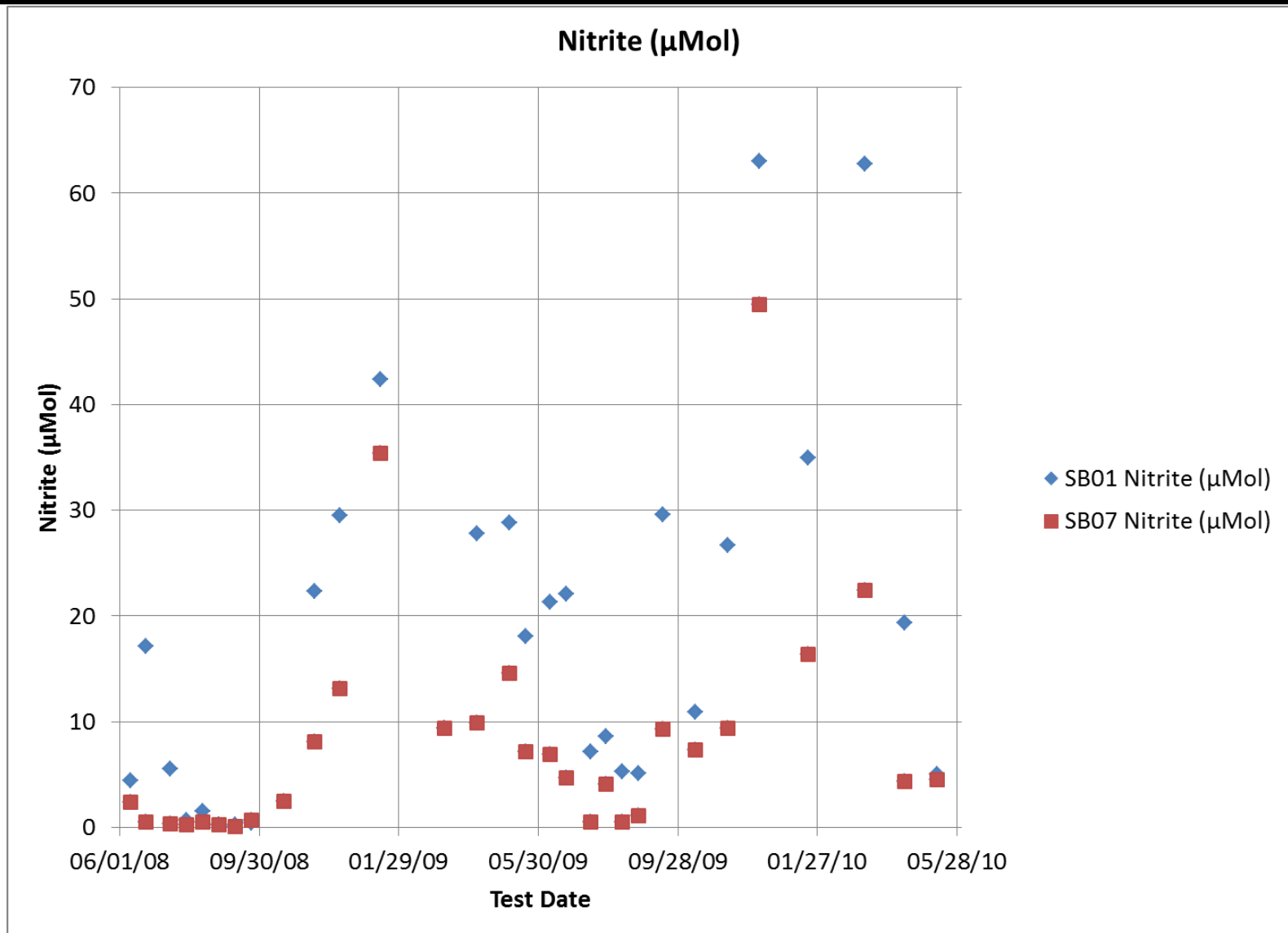


2008, 2009, 2010 Ammonia Levels





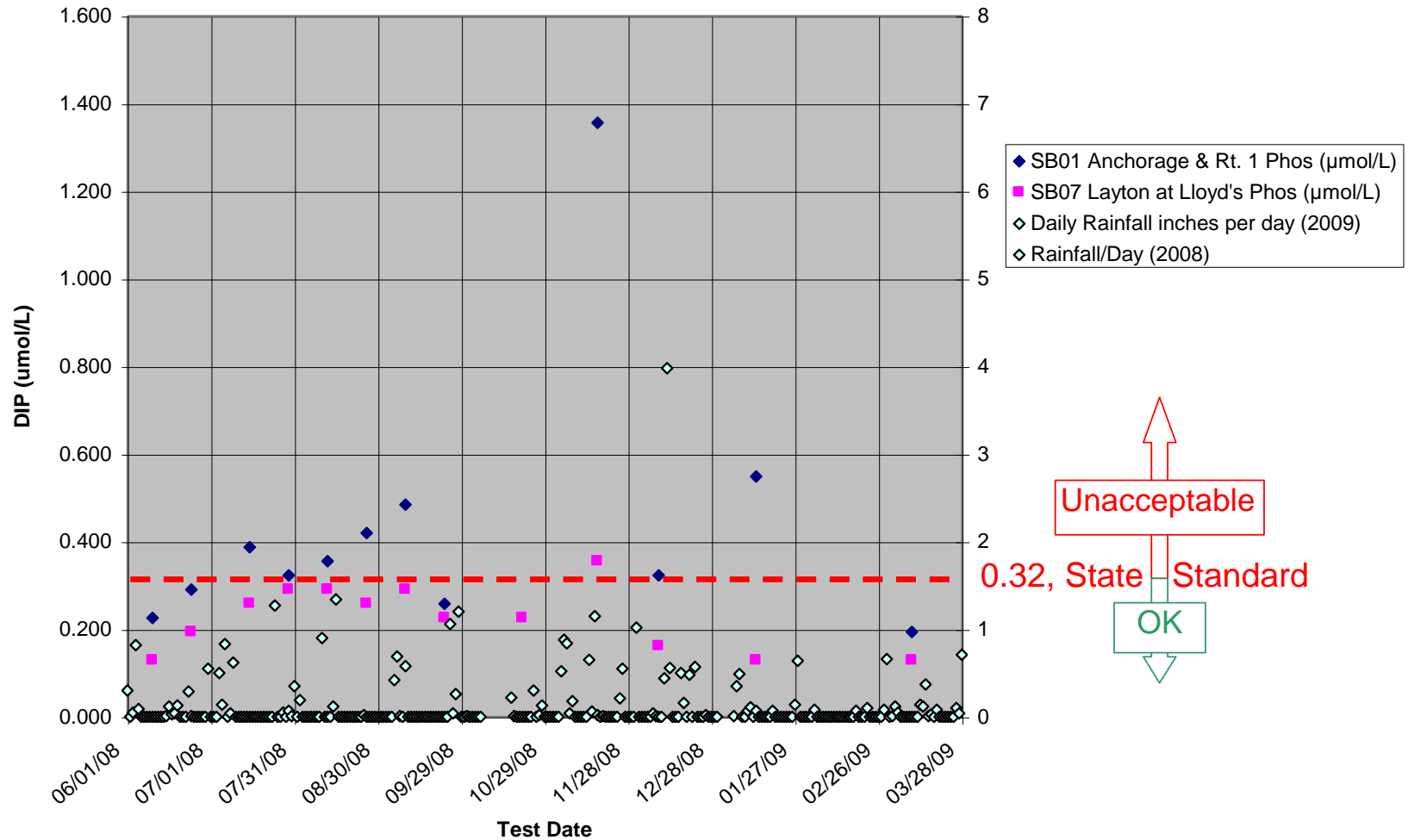
2008, 2009, 2010 Nitrate Levels





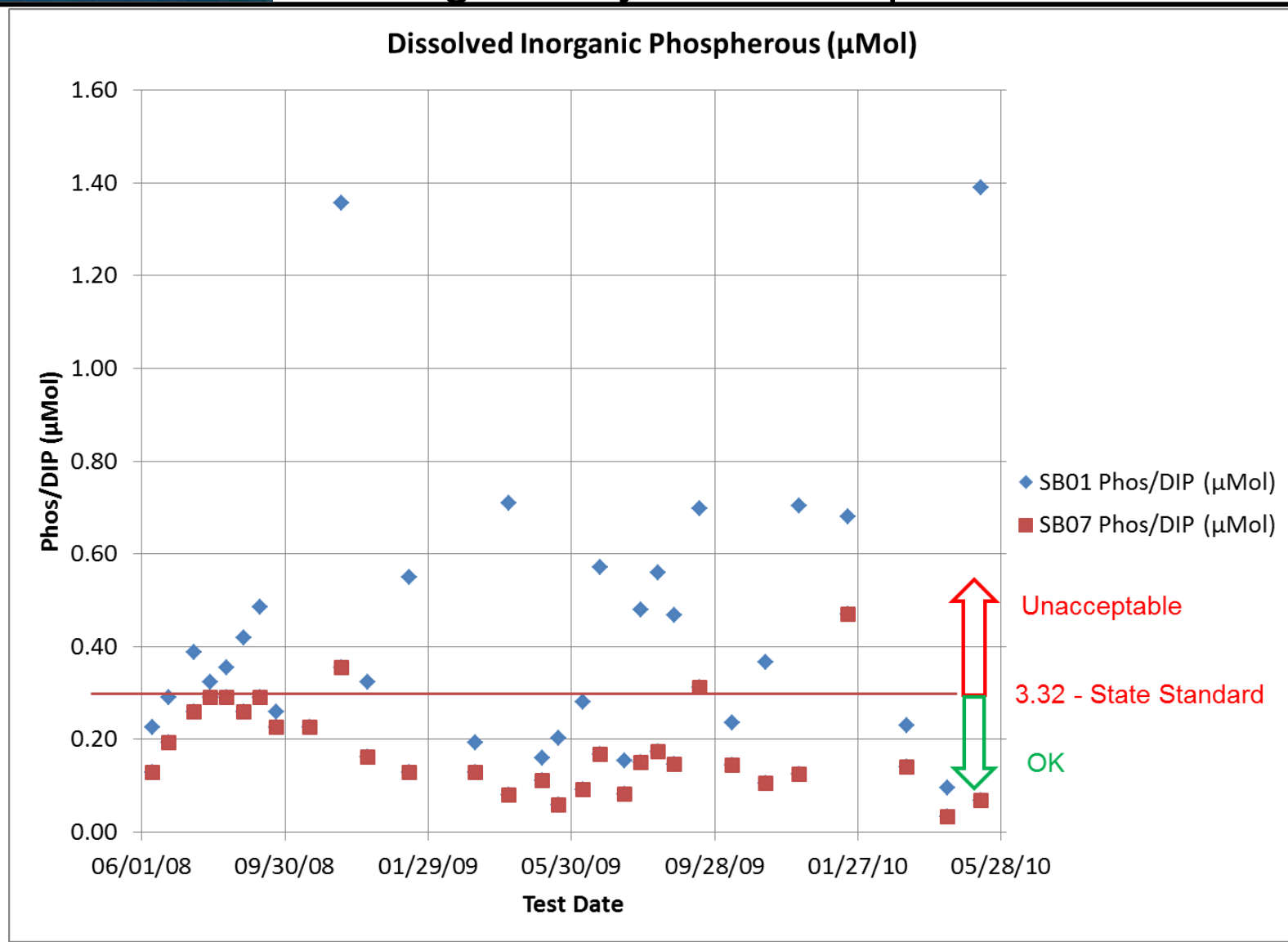
2008, 2009 Dissolved Inorganic Phosphorous Too High Away From Snap Gut

Dissolved Inorganic Phosphorous (DIP) in South Bethany Canals





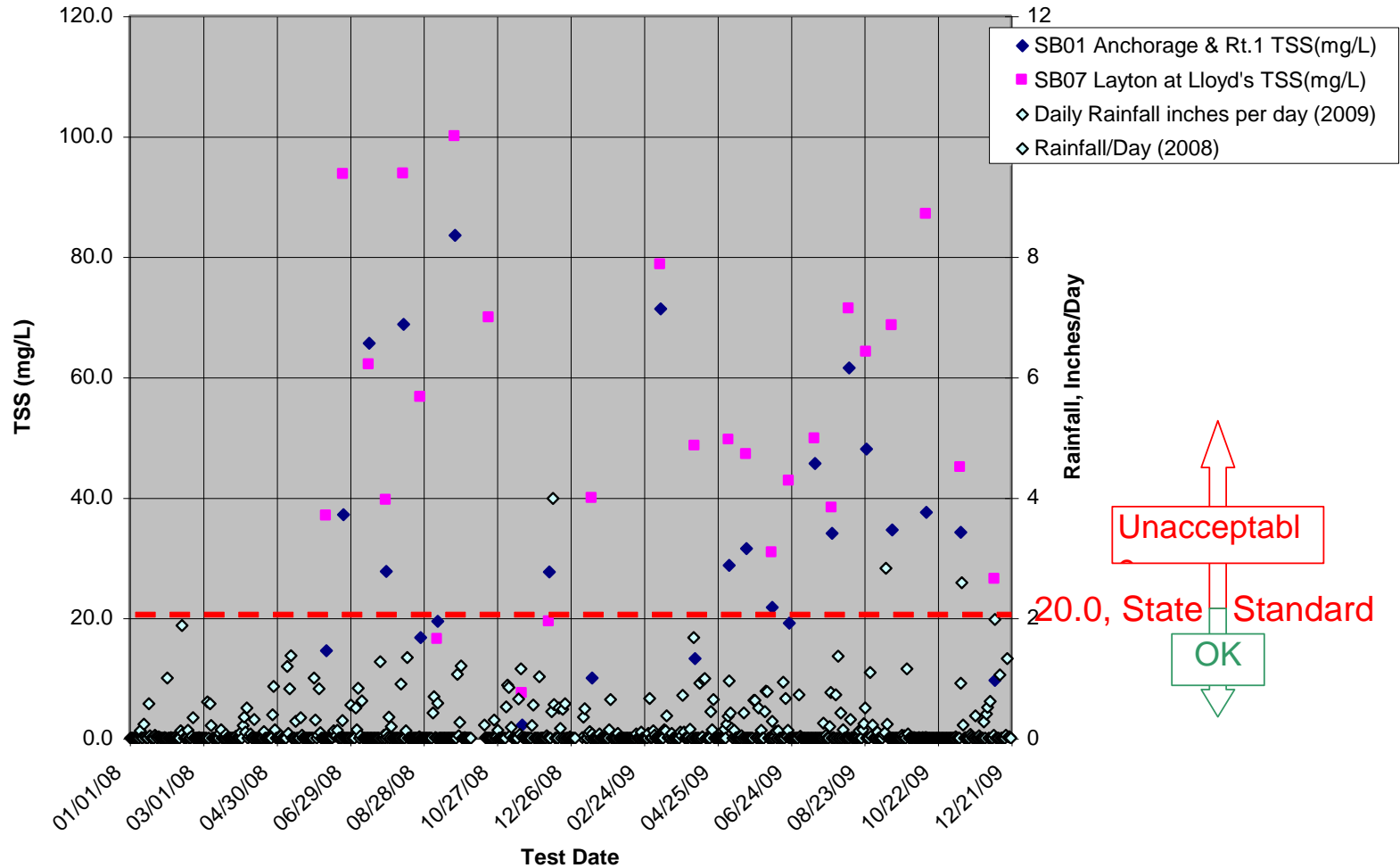
Dissolved Inorganic Phosphorous 2008, 2009, 2010 Too High Away From Snap Gut





2008, 2009 Total Suspended Solids

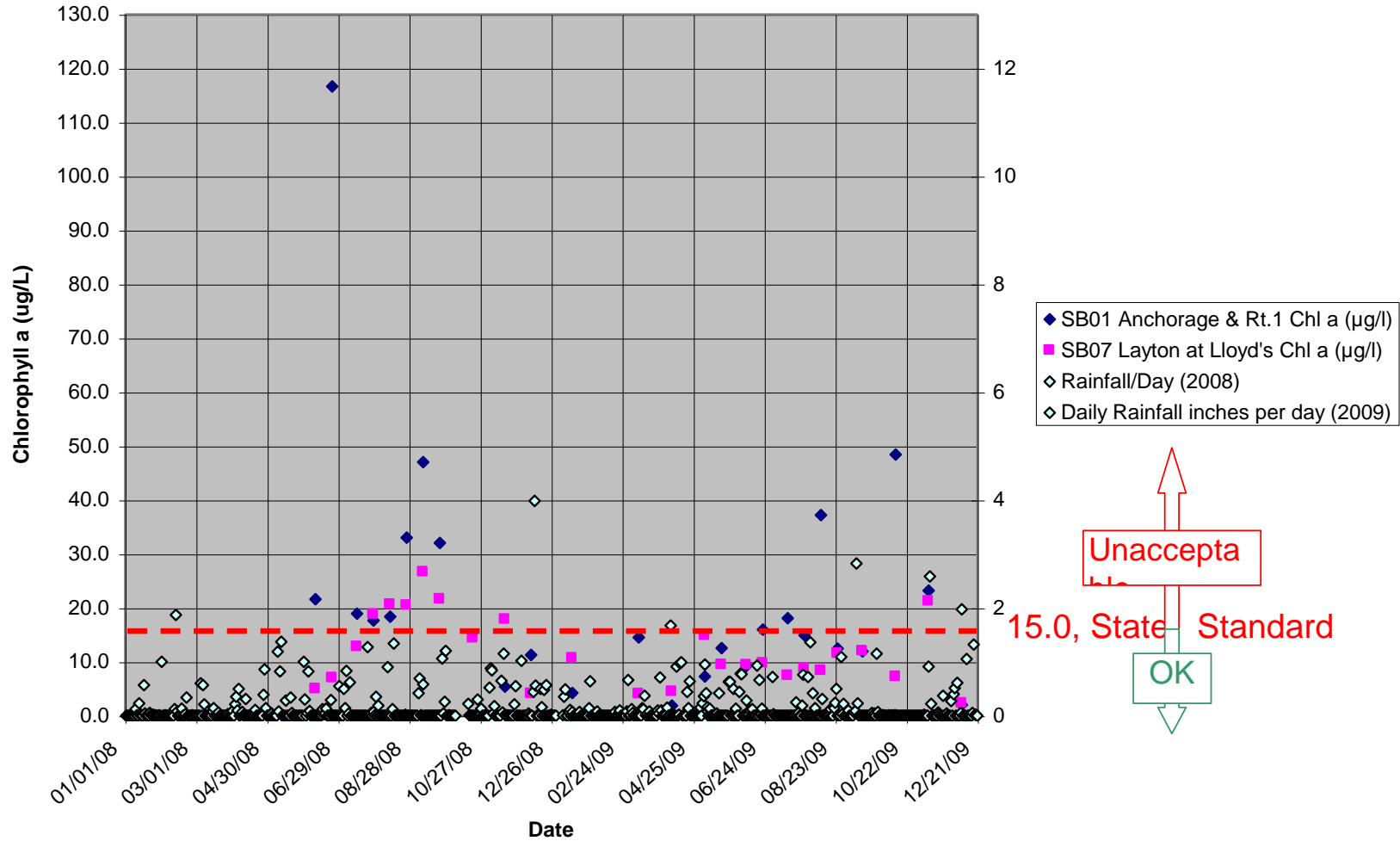
Total Suspended Solids (TSS) in South Bethany's Canals





2008, 2009 Chlorophyll a High In The Summer

Chlorophyll a in South Bethany's Canals





What we put in our canals
stays there for many months.