Science and Monitoring Workgroup

July 8, 2010 9:30 AM

Workgroup Members Present: Linda Broach (TCEQ), Ann Lutringer (Public), Scott Jones (GBF), Amanda Ross by phone (TCEQ), Lisa Miller-Marshall (GBF)

Discussion: Linda Broach discussed the data that she and Amanda Ross have been analyzing. Following are some of the correlations and patterns they found:

- There was a discrepancy in the location of samples being taken with the two sets of data – the TCEQ data and the TDSHS data. Linda plotted the TDSHS data after confirming their latitude and longitude.
- The TMDL time frame for the data was 2002 to 2007 therefore, Linda and Amanda chose data from 2000 to present to analyze.
- The data was correlated with seasonality which showed impairments only in November, December, and January, with the exception of West Bay where the highest concentrations of bacteria occurred in March. (Sampling was not done in West Bay or Trinity Bay during the summer.)
- Bacteria had the strongest correlation with salinity. The correlation with temperature was weak but still significant.
- By plotting this data, the bacteria sampling stations that are over the limit can be determined. For instance, 62% of samples from Cedar Bayou are over the limit.
- The data show a seasonal component and a runoff component.

Linda and Amanda will continue to work with the data. They will be able to present this information and provide handouts for the public meeting.

Action Items:

1. Linda and Amanda will meet on July 13th to continue the data analysis.
2. Linda and Amanda will coordinate the handouts for the public meetings
3. Lisa will begin the presentation for the Science and Monitoring Workgroup with Linda and Amanda contributing as well.

Next meeting: September 2, 2010 at 2:00 PM