

Alafia River Basin BMAP Meeting

FDEP SW District

October 2011



WELCOME



Introductions

staff supporting the BMAP

- Gerold Morrison (AMEC)
- Terry Hansen (FDEP)
- Anita Nash (FDEP)



Alafia River Basin WBIDs

- WBID 1621G (tidal reach) – dissolved oxygen (DO) and nutrient impairments
- WBID 1578B (Turkey Creek) – Fecal coliform (FC) impairment
- WBID 1592C (Mustang Ranch Creek) – DO, nutrient and FC impairments
- WBID 1552 (English Creek) – FC impairment
- WBID 1639 (Thirty Mile Creek) – DO and nutrient impairments
- WBID 1583 (Poley Creek) – FC impairment

REVIEW

- June 2011
 - Sunshine Law / TMDL / BMAP
- July 2011
 - MS4 permits and TMDLs
 - Walk the Waterbody process
 - Decision matrix

• http://publicfiles.dep.state.fl.us/DEAR/BMAP/Tampa_Bay_Tributaries/BMAP_2011/

August 2011 meeting

- Decision Matrix Application to HRB (Gerold)
- Walk the Waterbody (Anita)
- Review of NMC projects

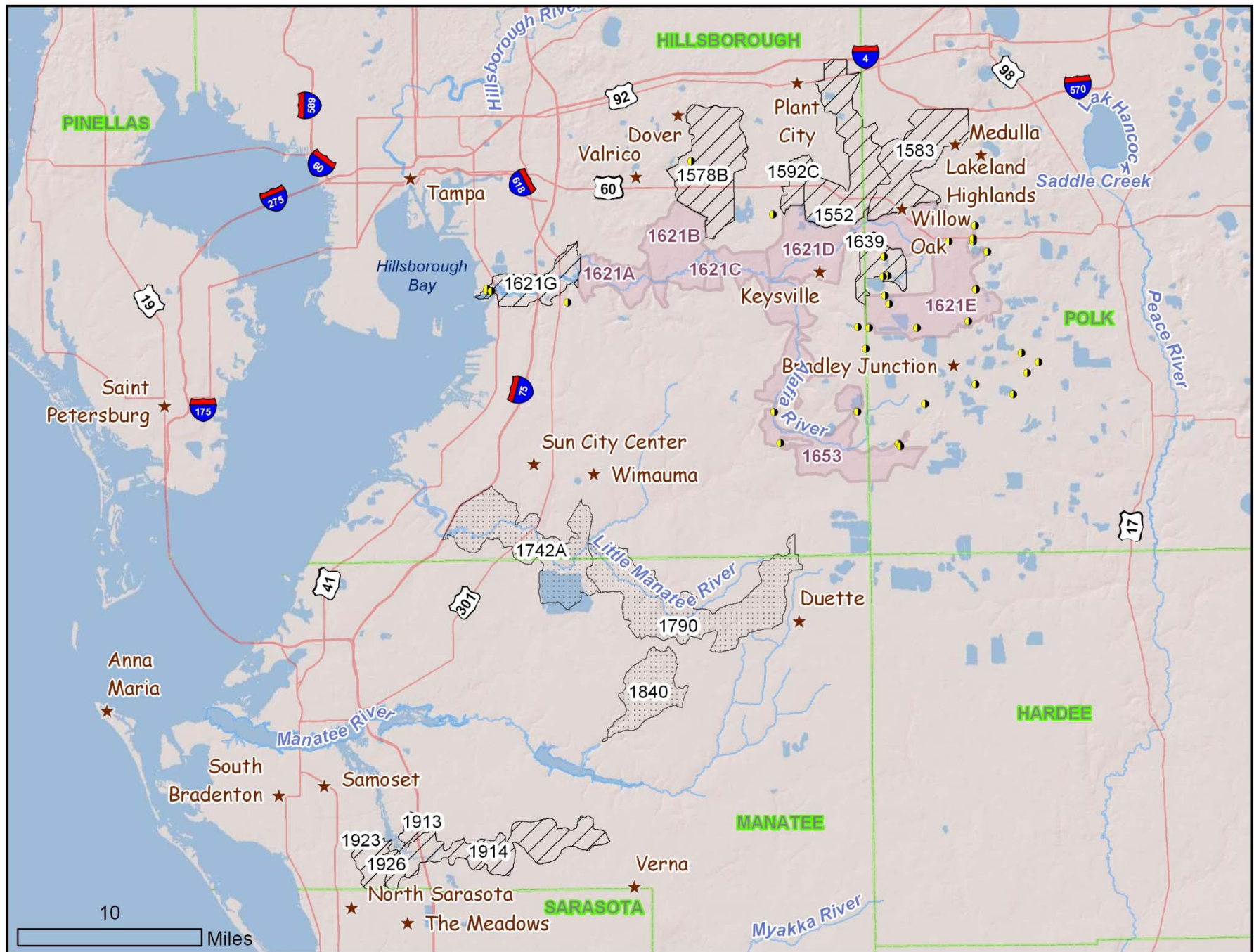


October 2011 meeting

- Nutrients (Terry)
- Database Update (Gerold)
- Project Update Process (Gerold)

Nutrients

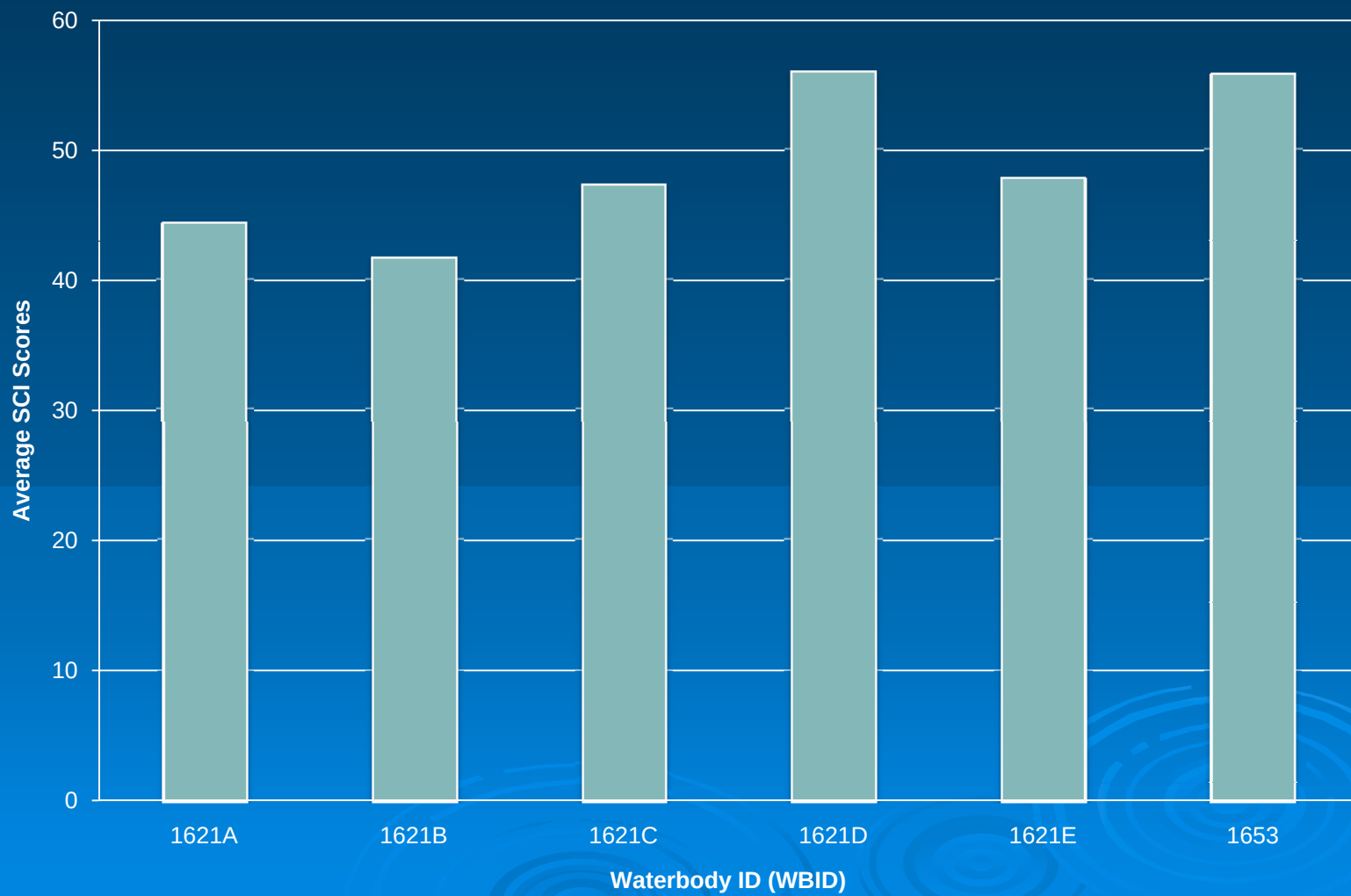




Nutrients in Alafia Basin

- FDEP studies on water quality and biology of WBIDS in Alafia
- Stream Condition Index (SCI)
 - 22 SCIs (including habitat assessment) conducted from 2005 through 2010
 - Average above 40 (EPA acceptable level)

SCI data



Biology

- **Rapid Periphyton Survey (RPS)**
 - Algal coverage & biomass acceptable
- **Linear Stream Vegetation Survey**
 - No indication of “nutrient tolerant” plants outcompeting or displacing expected community

TN & TP



TN & TP Data

- STORET TN & TP Data analyzed
 - Jan 2006 thru march 2010
 - Calculate average geometric mean
 - Calculate upper 90th prediction interval

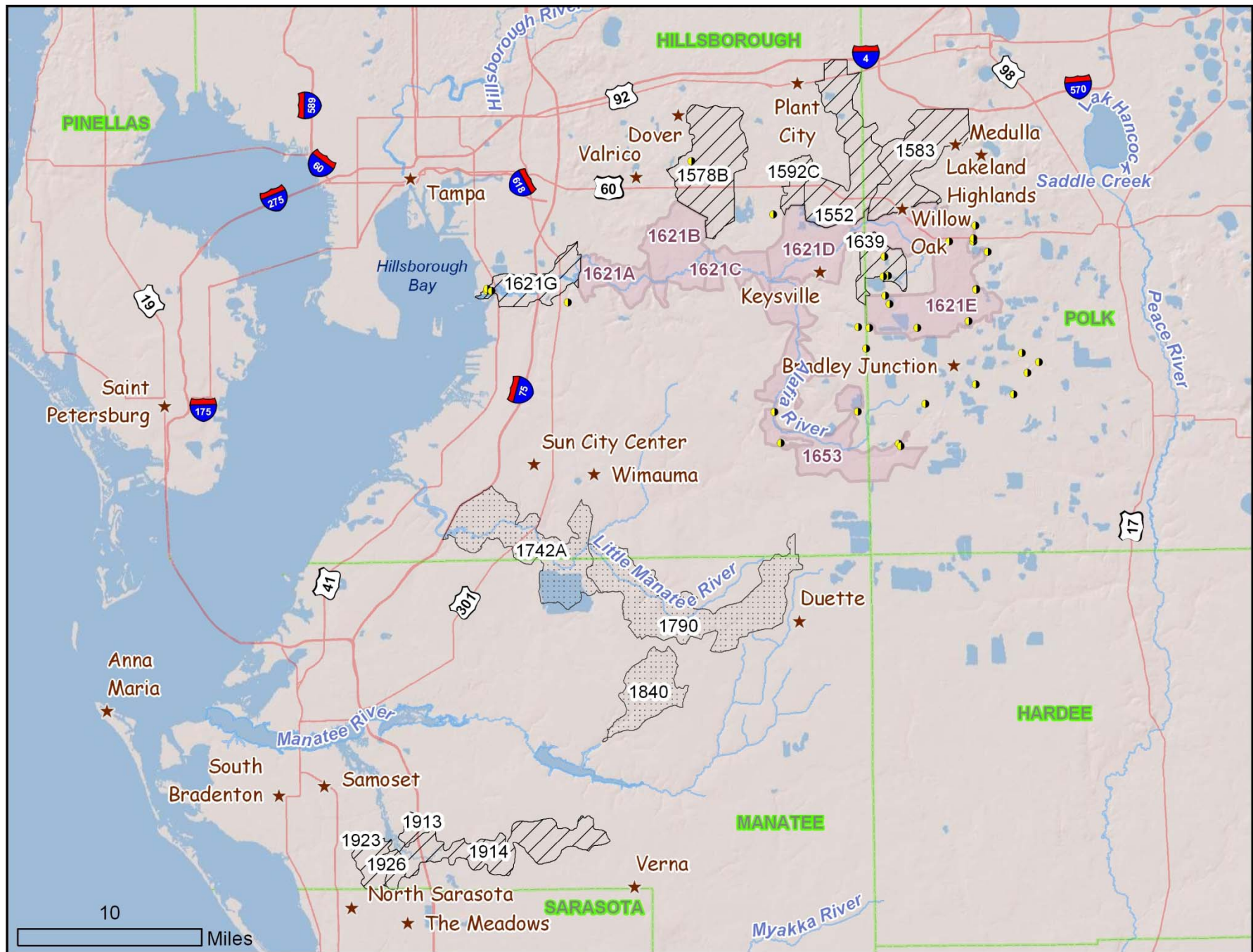
TN & TP in Alafia Basin

WBID	TP (mg/l)	TN (mg/l)
1621A	1.17	1.8
1621B	1.17	1.8
1621C	1.17	1.8
1621D	2.24	1.73
1621E	3.45	1.64
1653	0.92	1.57

TN & TP

TN & TP values from the past 5 years appear to be protective of the Alafia River and the downstream receiving waters of Hillsborough Bay





TMDL WBIDs

WBID	TP (mg/l)	TN (mg/l)	Impairment
1621G	NA	0.65	DONUT
1592C	0.415	1.73	DONUT
1639	NA	3.0	DONUT

TMDL WBIDs

BMAP Phase 1

- WBID 1621G
 - TN 1.8 mg/l to 0.65 mg/l
- WBID 1592C
 - TP 2.24 mg/l to 0.415 mg/l
 - TN 1.73 mg/l
- WBID 1639
 - TN 3.0 mg/l

Path Forward

- This doesn't mean DO NOTHING
- Update existing NMC RA Plan projects
- Incorporate new activities in watershed (not just these WBIDs)
- Evaluate LOE for sufficiency
- Thank TBEP for getting to this point

BREAK



Database Update

Gerold Morrison



What Needs to be Done Next?

➤ BCI/AMEC will be contacting stakeholders to:

- update projects in RA Plan
- Collect information on new projects
- Developing database

Future Meeting Topics

- Project data collection Nutrient & Fecal
- Database
- Assessment of LOE for sufficiency of effort



Contact Information

- Basin Coordinator terry.hansen@dep.state.fl.us
- TMDL kevin.petrus@dep.state.fl.us
- TMDL Website link
<http://www.dep.state.fl.us/water/tmdl/index.htm>
- Presentations & other Information
http://publicfiles.dep.state.fl.us/DEAR/BMAP/Tampa_Bay_Tributaries/