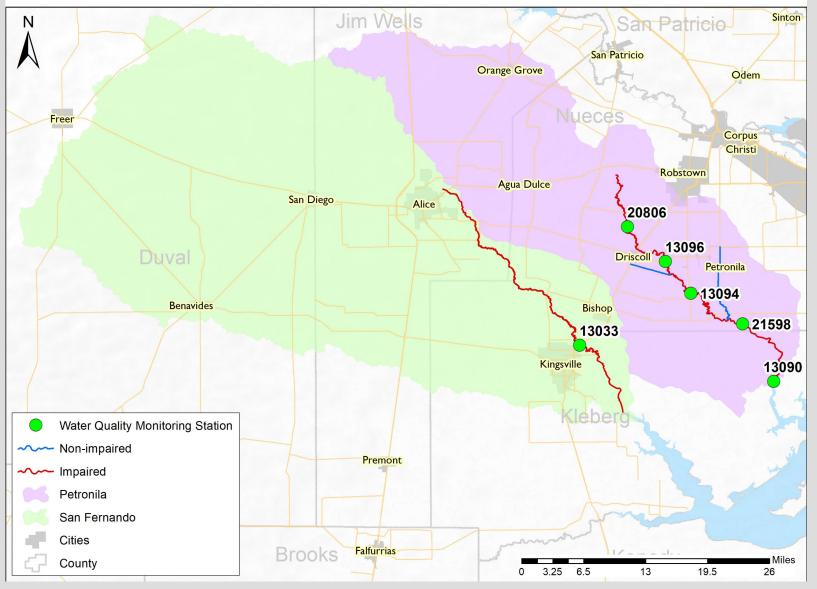
MONITORING AND MEASURES OF SUCCESS

Lucas Gregory

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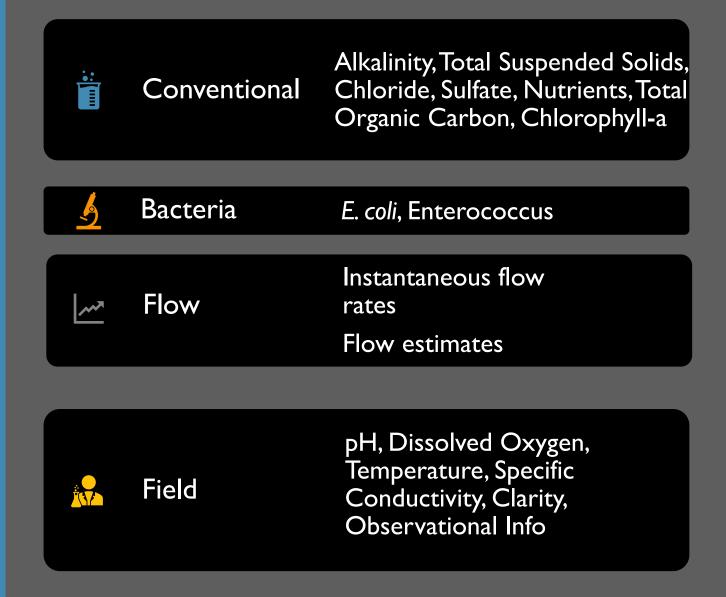
Petronila & San Fernando Creek Water Quality Monitoring Stations



CURRENT CLEAN RIVERS PROGRAM MONITORING

- PETRONILA CREEK: 4 STATIONS (NRA & TCEQ)
- SAN FERNANDO CREEK: I STATION (NRA)
- LOS OLMOS CREEK: I STATION (NRA)
- BAFFIN BAY: 2 STATIONS (TCEQ)

CRP MONITORED PARAMETERS



WPP MONITORING RECOMMENDATIONS

Continue current CRP monitoring for continued baseline and assessment purposes

2

Work to expand the distribution and frequency of sampling across the Baffin Bay watershed

Especially Los Olmos and San Fernando

3

Include implementation effectiveness monitoring in the WPP

 Plan monitoring details once specific implementation activity is identified

SPECIALIZED MONITORING

Monitoring to facilitate source tracking

Bacteria source tracking and quantitative risk assessments

Nutrient source tracking with focus on sources impacting downstream Baffin Bay

OSSFs and WWTFs

Waterbody specific assessments

Aquatic life uses: dissolved oxygen testing and biotic integrity evaluations

Focused short duration, high intensity sampling programs

Help refine source ID efforts Evaluate practice effectiveness

WATER QUALITY TARGETS

Waterbody Name	Statio n	AU	Samples	Geo Mean	10 yr Goal (cfu/100mL)
Petronila Tidal	13090	2203_01	42	44.9	≤35
Petronila	13094	2204_01	42	419.4	≤126
Petronila	13096	2204_02	53	592.5	≤126
Petronila	20806	2204_02	40	28.8	≤126
San Fernando	13033	2492A_ 01	57	303.6	≤126



ASSESSING WATER QUALITY

- The Texas Commission on Water Quality performs biannual water quality assessments
- Texas Integrated Report published in even number years
 - Uses most recent 7 year moving average
 - Ex. 2020 Report assessment period was 12/1/2011 to 11/30/2018
- 2026 Texas Integrated Report will be the first to include significant time post WPP completion
 - Takes significant time to see instream water quality improvements if at all

INTERIM MEASURABLE MILESTONES

Markers of implementation progress not directly tied to water quality

Number or quantity of practices implemented

Measures of stakeholders engaged

Amounts of funding acquired to implement the plan

ADAPTIVE MANAGEMENT



Considerable uncertainty exists in WPP development and implementation



Learn through doing

Plans may not be as effective as originally thought

Conditions may change (development; industry)

Willingness to implement may vary



Costs may be prohibitive; or funding plans may not materialize



Annual checks on implementation progress through the Baffin Bay Stakeholder Group

QUESTIONS?

NEXT STEPS - NEAR TERM

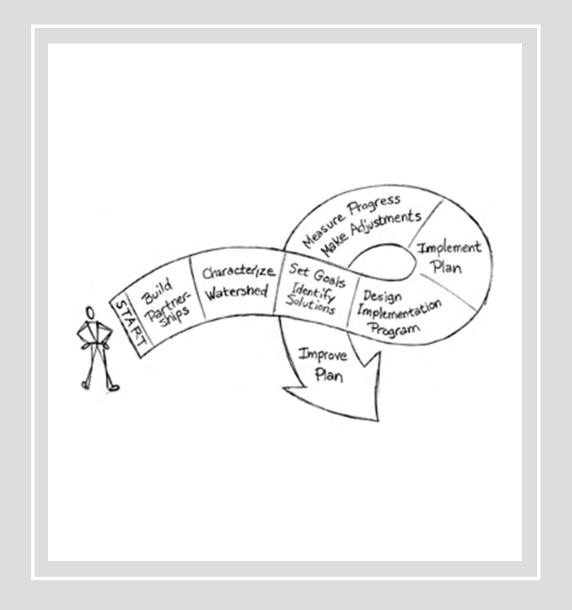
Revise Draft Chapters of WPP

Please send edits in by December 3rd

Begin drafting management measure chapter, local and technical assistance and E/O chapters to present at next meeting

Next Stakeholder Meeting will preferably be in late January

Can push to early February if needed



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