

# **FPL Turkey Point Monitoring Plan: Data Posting and Analysis**

**South Miami-Dade Water Issues Roundtable**  
**October 4, 2010**

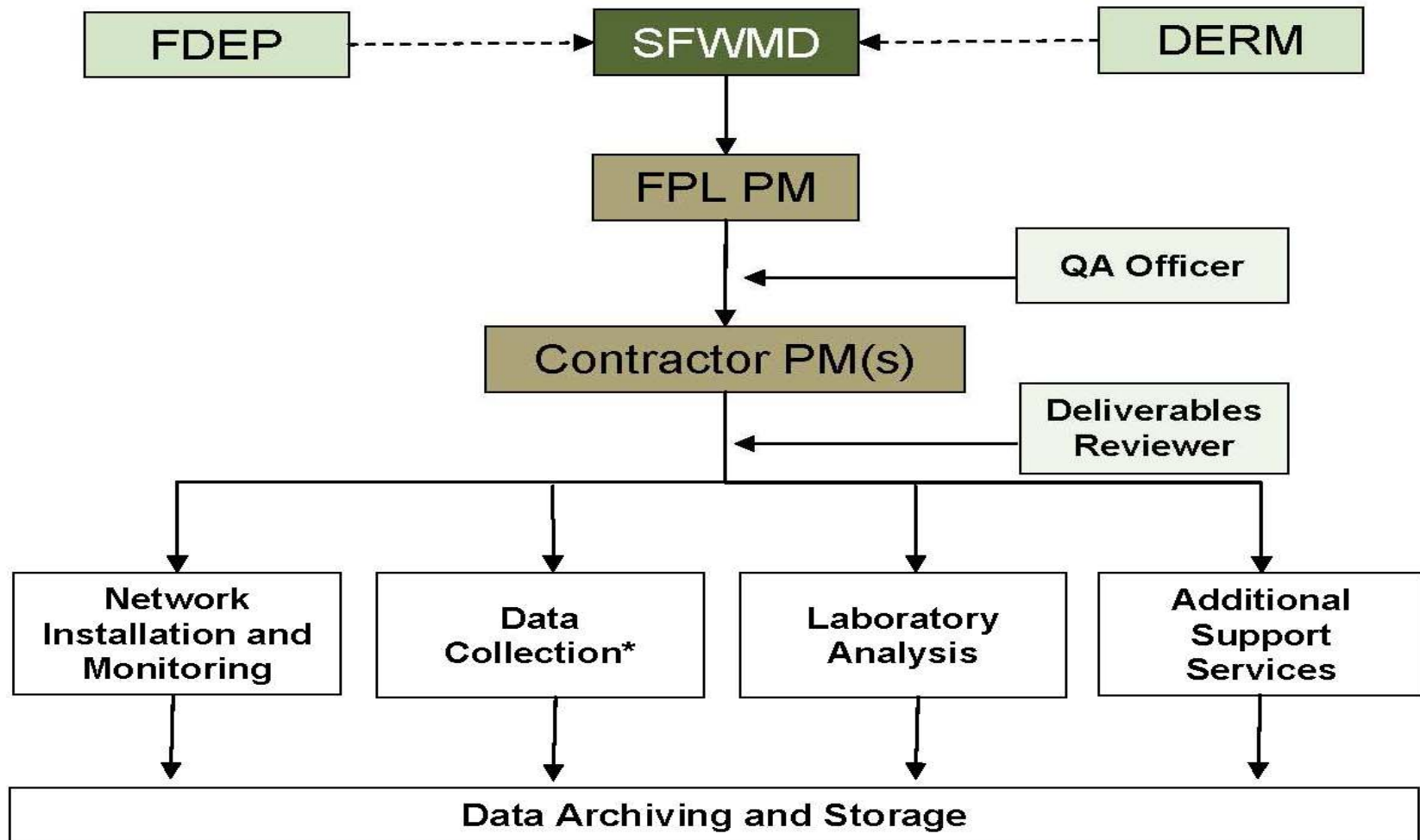
Scott Burns, P.G., Chief Scientist  
South Miami-Dade Water Issues Coordinator



# Data Quality, Availability, and Analysis

- **Is FPL's Data Reliable?**
  - Quality Assurance Protection Plan
- **Will the Data be Available to the Public?**
  - District's Water Issues Coordination Web Page
- **How Will the Data Be Evaluated?**
  - Agencies analysis and District decision process

# FPL Turkey Point Monitoring Project Organizational Chart



\* Includes hydrological, ecological, meteorological, geophysical, borehole logging, and other data efforts.

# Quality Assurance Protection Plan

- Establishes minimum quality assurance/quality control procedures for:
  - Monitoring (instrumentation/site setup)
  - Laboratory methods
  - Data collection protocols and methods
  - Data retention and documentation protocols
- Prepared by FPL, reviewed and approved by District in consultation with DEP and M-D DERM

# Quality Assurance Protection Plan

- QAPP developed under the following guidelines:
  - U.S. Environmental Protection Agency Requirements for Quality Assurance Project Plans, EPA QA/R-5
  - USEPA Guidance for Quality Assurance Project Plans, EPA QA/G-5
- All data collected and processed will meet:
  - Department of Environmental Protection (FDEP) Chapter 62-160, Florida Administrative Code (F.A.C.), unless noted otherwise



# Quality Assurance Protection Plan

- QAPP development timeline
  - December 2009; FPL submits QAPP version 1.0
  - February 2010; consolidated Agencies' comments submitted to FPL
  - March 2010; Porewater sampling element approved
  - April 2010; FPL submits QAPP version 2.0
  - Additional QAPP sub-sections submitted by FPL
  - August 2010; consolidated Agencies' comments on version 2.0 (plus added items) submitted to FPL
  - August 2010; FPL submits QAPP version 3.0

# Pre QAPP Data Collection

- Sampling/processing methods and protocols established before sampling occurred
- FPL followed QAPP/DEP 62-160 methods and protocols
- Agencies staff observed FPL contractors field sampling
- District QA/QC officer conducted sampling audit
- Certified labs used for standard analyses, USGS lab used for non-standard analyses

# Making Data Available to the Public

- District's committed to making data available
  - Miami-Dade Service Center Web page ([sfwmd.gov](http://sfwmd.gov))
  - Data from FPL, DBHYDRO, USGS, NPS, DERM
  - FPL provisional and QA/QC data
  - FPL reports submitted as required under the 5<sup>th</sup> Supplemental Agreement
- Limitations
  - Data can not be processed, re-formatted, analyzed nor interpreted by staff at public's request





# How Will the Data Be Evaluated?

- Analysis of FPL data made by technical experts from the agencies.
- Results and recommendations stemming from analysis are presented to District's SMDWIC Executive Oversight Team
- Share Agencies' evaluations with FPL
- Agency action(s), as determined by the District Executive Oversight Team shall be implemented through District organizational structure
- Completed Agencies' evaluations and District actions to be shared with stakeholders



**Questions?**

# Water Issues Coordination - Projects

- FPL Turkey Point Fifth Supplemental Agreement
- FPL Unit 6 and 7 Site Certification Application
- Seasonal Drawdown Operations
- Card Sound/Florida Cities Water Control Structures
- Rock Mining Impact Evaluations
- C-111 West Spreader Canal CERP Project

# Water Issues Coordination - Projects (cont.)

- Biscayne Bay Coastal Wetlands CERP Project
- Regulatory Compliance
- Biscayne Bay Water Resource Rule Development
- South Miami-Dade Outreach
- Florida Bay MFL Research
- Litigation Support



# Field Conditions – Site 1

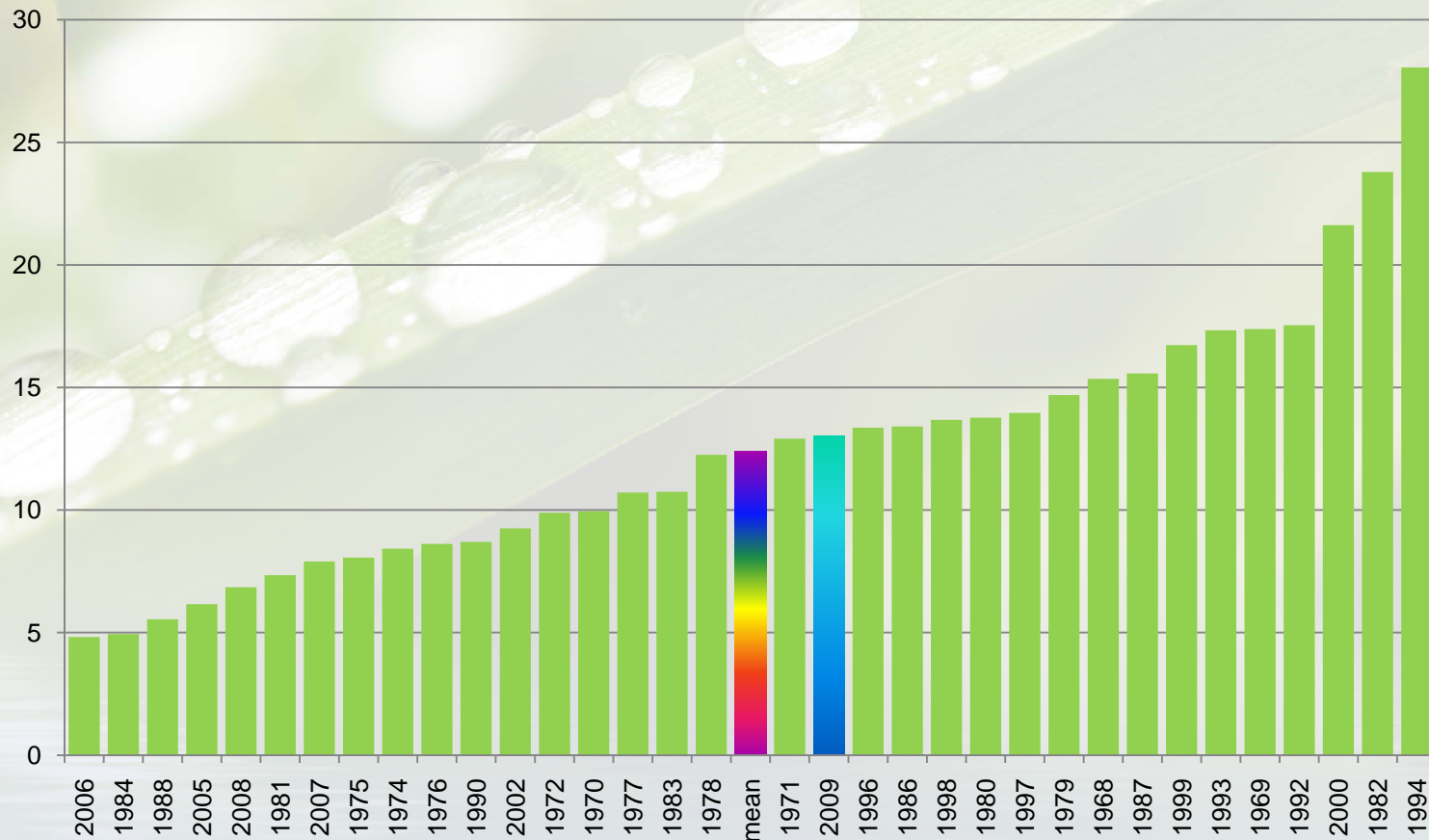


November 25, 2009

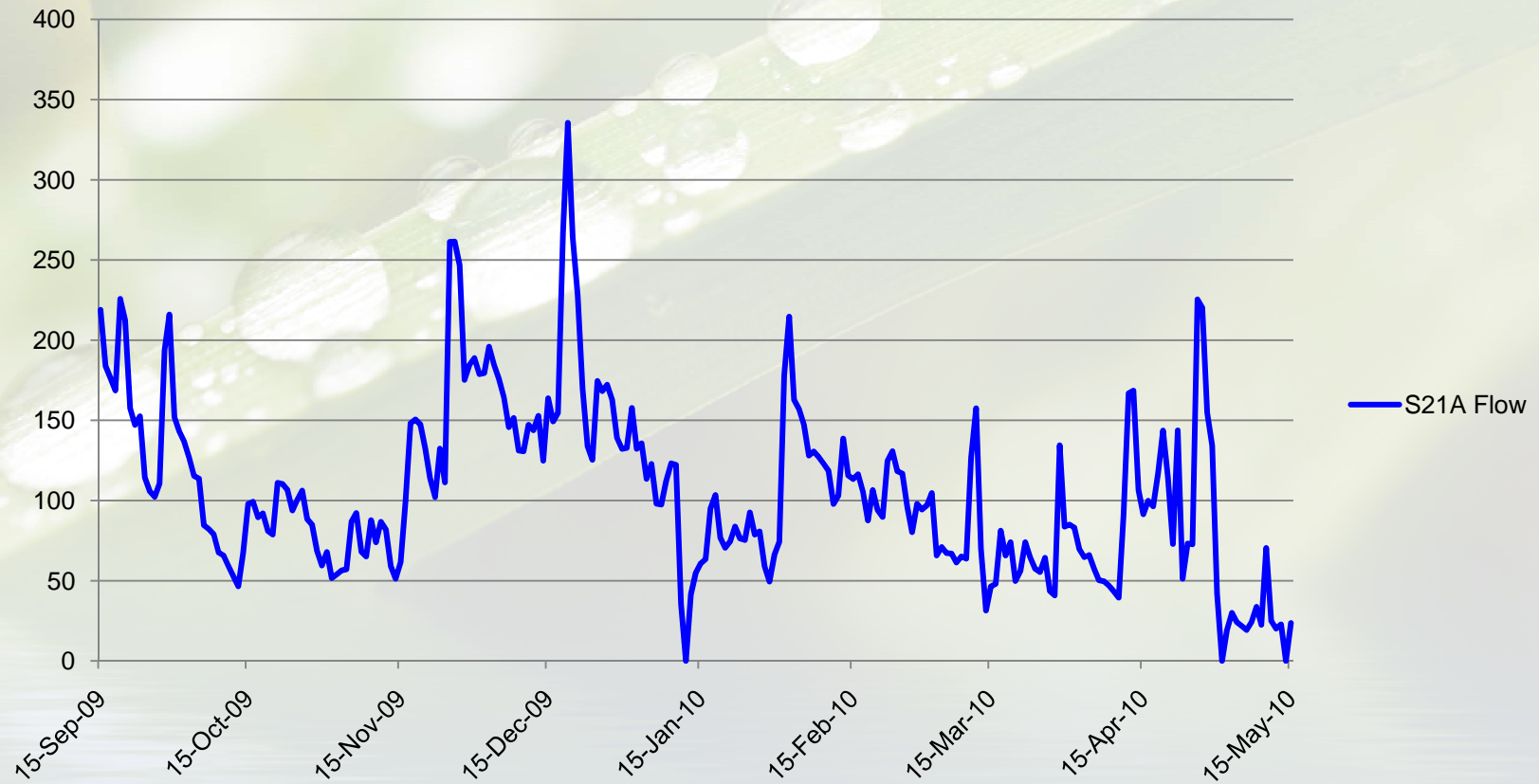


# Rainfall During Draw-down Period

## Rainfall October Through January



## S21A Flow



## S20F Flow (cfs)

