Water Quality Data Reporting and Management:

Our STORET / WebSIM Experience

Presented By:

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Today's Presentation: Outline

- Overview of our Water Quality Monitoring Program

- Understanding Data from the Lab

- Getting the Info You Need from the Lab

- Resource Needs for Using STORET / WebSIM

- Suggestions for Using STORET / WebSIM

- Questions?

Zanja De Cota Creek WQMP

- Funded with CWA 106 Grant

- Contracted Tetra Tech, Inc.
  - Non-point Source Assessment
  - Non-point Source Management Plan
  - Water Quality Control Plan

- First Flush Samples (8 sites) Jan. 2005

- Monthly Monitoring Plan (4 sites) Dec 05 – Sept 06

- Field Samples
  - pH, turbidity, temp, DO, SC

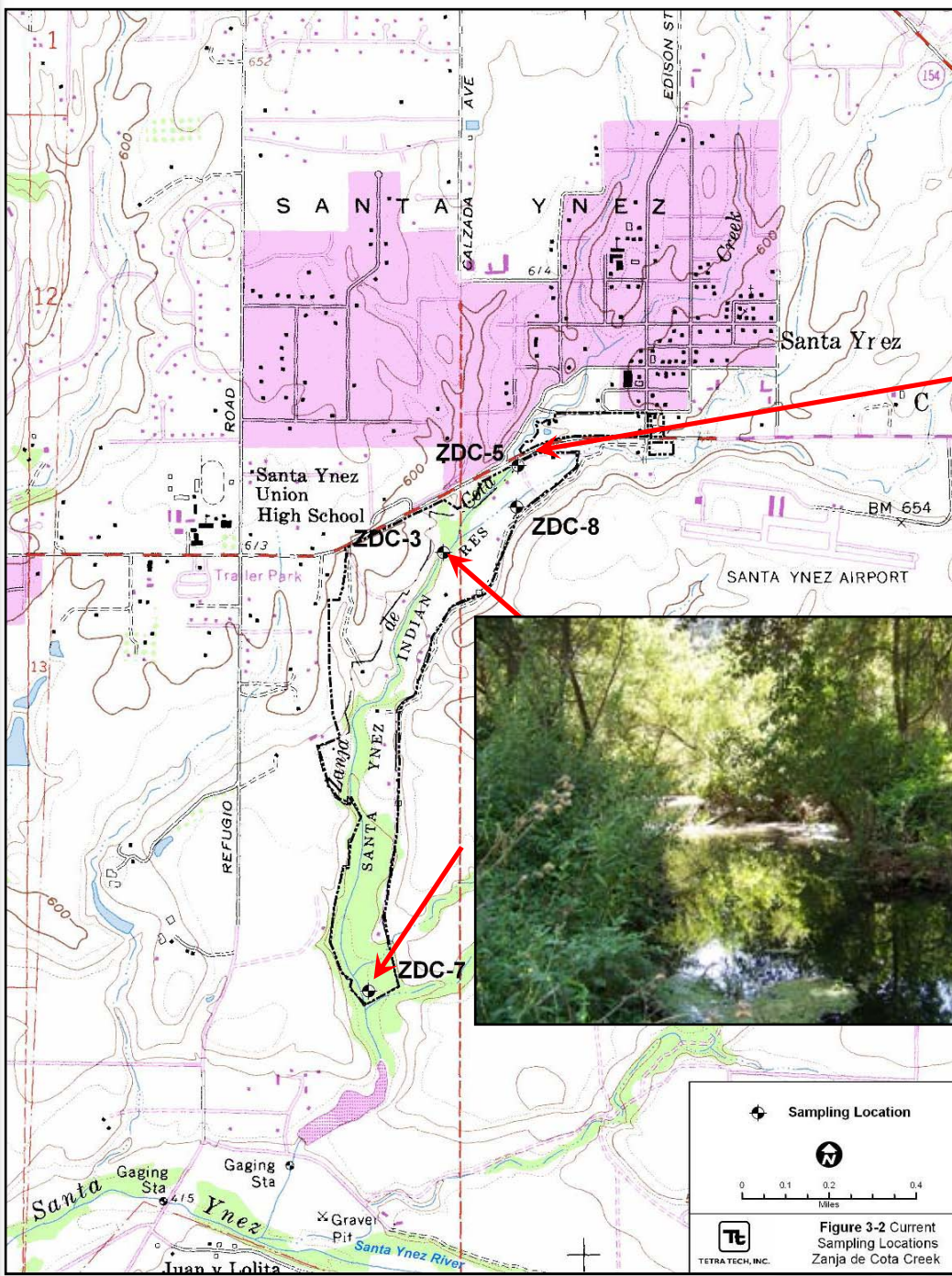- Lab Samples
  - organic / chemical constituents, bacteria

Figure 3-2 Current Sampling Locations Zanja de Cota Creek

TETRA TECH, INC.

Sampling Location

Miles
0   0.1   0.2   0.4

Understanding Data from the Lab

STORET Field

- Station ID
- Medium
- Activity Start Date
- Characteristic Name
- Result Value
- Result Value Units
- Field/Lab Procedure
- Field/Lab Procedure Source
- Analysis Date
- Detection Limit
- Detection Limit Unit
- Sample Fraction (not reported)

Getting the Info You Need from Lab

- Create List of Categories You Need

- Create simplified STORET template (maintain macros)

- Lab can report data using this template

Resource Needs

1 Year of Data (monthly sampling) for 3 sites

- Acquiring and organizing lab data
  - 1 person, (6 - 8 hours)

- Data entry into STORET template
  - **2 people**, (16 hours)
  - (Most time-consuming part ⟹ looking up entries)

- Reviewing and editing STORET template
  - **2 people**, (2-3 hours)

- Uploading data using WebSIM (without errors)
  - 1 person, (30 min - 1 hour)

- Uploading data using WebSIM (with errors)
  - 1 person and the EPA Help Desk, (1 - 48 hours)

Suggestions for Using STORET / WebSIM

- "Drag and Fill" feature in Excel

- "Find" feature in Excel   (cut and paste)

- Date and time formats   (**m**m/dd/yyyy)
  - Leading 0 must be present

- Use 2 people for data entry and checking
  - Paper ⟹ spreadsheet , Spreadsheet paper ⟹

- Tribal Education Program

- Interns
  - Local Universities, City Colleges, or High Schools
  - Familiar with Excel

Questions?

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