

DRAFT

4C - Sampling and Analysis Plan (SAP) *Summary and Progress Report*

Fillmore and Piru Basins Groundwater Sustainability Agency

January 16, 2020



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Aerial image by John Carman on 2/2/2019.
Sespe Creek at high storm stage in Fillmore
basin looking obliquely south.

Reference / Background Materials

- | | |
|-------------|--|
| Jan
2020 | <ul style="list-style-type: none">• BMP #1 - <i>Monitoring Protocols, Standards, and Sites</i>• CCR Subarticle 5 <i>Projects and Management Actions (Emergency Regulations)</i> |
|-------------|--|

DWR BMP #1 Monitoring Protocols, Standards, and Sites:

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Best-Management-Practices-and-Guidance-Documents/Files/BMP-1-Monitoring-Protocols-Standards-and-Sites_ay_19.pdf

DRAFT SAP prepared to satisfy criteria of 23 CCR:

- § 352.2 - Monitoring Protocols
- § 352.4 - Data and Reporting Standards
- § 352.6 - Data Management System



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California Department of Water Resources
Sustainable Groundwater Management Program

December 2016

Best Management Practices for the Sustainable Management of Groundwater

Monitoring Protocols, Standards, and Sites

BMP

United States Environmental Protection Agency
Office of Environmental Information
Washington, DC 20460
EPA/240/B-01/003
March 2001

EPA EPA Requirements for Quality Assurance Project Plans

EPA QA/R-5

USGS
science for a changing world

Office of Groundwater

Groundwater Technical Procedures of the U.S. Geological Survey

USGS
science for a changing world

Preparations for Water Sampling

Chapter 1 of Section A, National Field Manual for the Collection of Water-Quality Data
Book 9, Handbooks for Water-Resources Investigations

Techniques and Methods 9-A1
Supersedes USGS Techniques of Water-Resources Investigations,
Book 9, Chapter A1, Version 2.0

U.S. Department of the Interior
U.S. Geological Survey

S & A
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SAP Purpose

Establish SGMA Compliant Monitoring Protocols and Standard Methods for:

- Water sample collection procedures (GW & SW)
- Analytical sample analysis methods
- Groundwater level measurement protocol
- Data QA/QC procedures.



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SAP does NOT do the following...

- Define which wells are monitored for WLs or quality
- Define what streams are monitored for flow rate or quality
- Define the monitoring frequency
- Define the laboratory analytical program

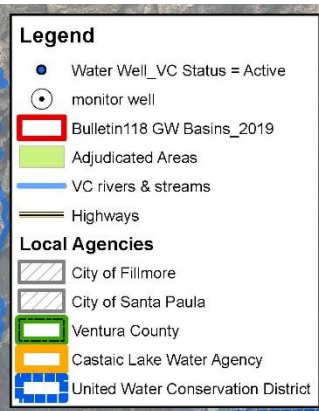
Where are these elements defined?

➔ Monitoring Program / Data Gap Analysis



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Existing Long-Standing Moni. Networks

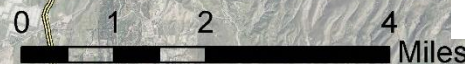


The SAP is not intend to impose specific schedules or monitoring wells and/or sampling locations on UWCD or VCWPD.

Many of the field techniques and procedures presented in the SAP UWCD and VCWPD may already have in place.

Santa Paula Basin (4-4.04)

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SAP Next Steps

- DBS&A Internal Review
- UWCD Review
- SAP will be included as an Appendix in the GSPs (the SAP covers both basins)



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Monitoring Program / Data Gap Analysis Tech Memo

- Description of available WL and WQ data;
- The two long-term WL and WQ monitoring networks operated by UWCD and VCWPD;
- A trends analysis of WL and WQ constituents; and
- Recommendations on how refinement and expansion of the existing monitoring programs might minimize or eliminate data gaps, especially in critical areas.



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Relationship of Monitoring Protocols To Other BMPs

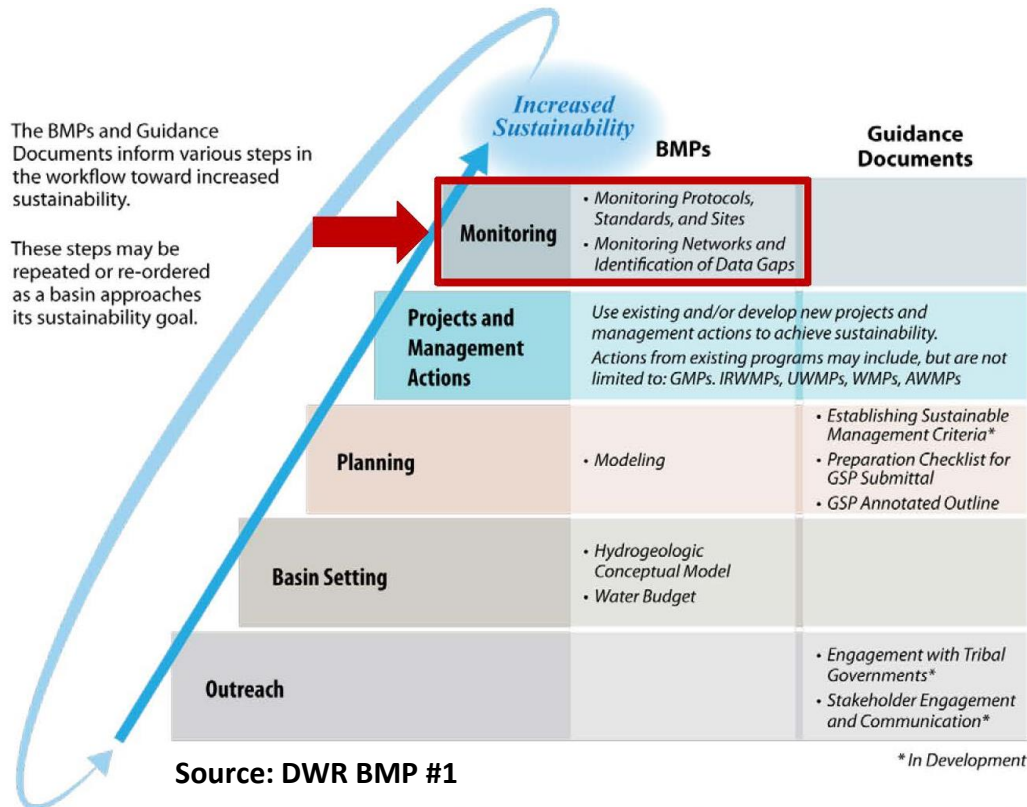


Figure 1 – Logical Progression of Basin Activities Needed to Increase Basin Sustainability



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