Coachella Valley Salt and Nutrient Management Plan

For Regional Quality Control Board
Colorado River Region

by Patti Reyes
May 8, 2014

Recycled Water Policy

▸ State Water Resources Control Board adopted Recycled Water Policy – 2009

▸ Recycled Water Policy requires Salt/Nutrient Management Plans (SNMPs) completed by May 2014

▸ Goal:
  ◦ *Facilitate basin-wide management of salts and nutrients from all sources in a manner that optimizes recycled water use while ensuring protection of groundwater supply and beneficial uses, agricultural beneficial uses, and human health.*
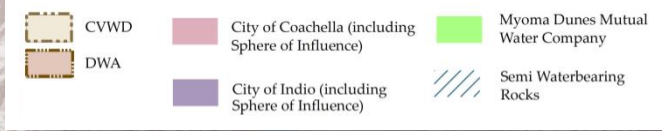
▸ Stakeholder driven process
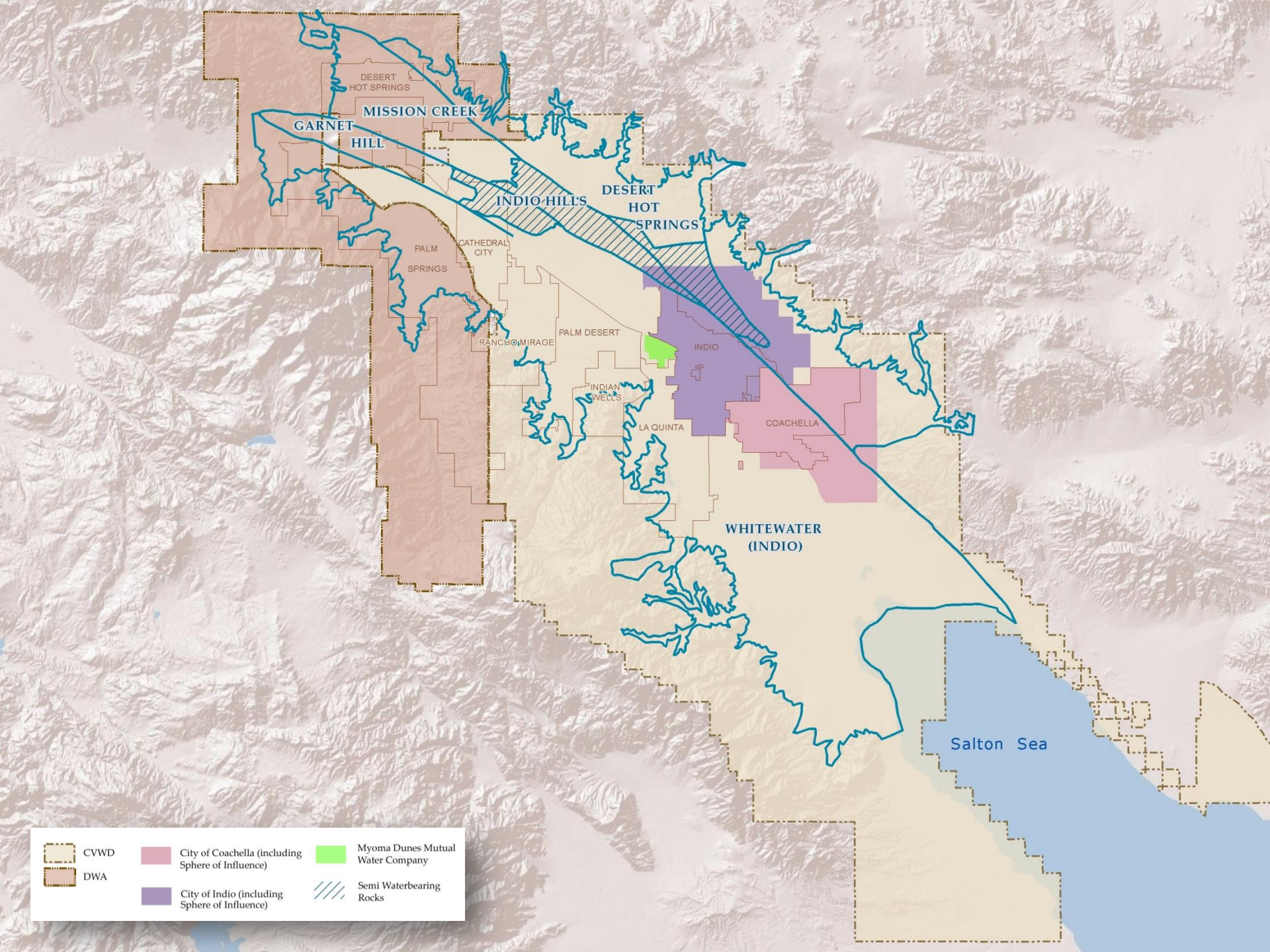
Coachella Valley SNMP Purpose

- Identify salt and nutrient loading within the Coachella Valley

- Identify and evaluate potential projects and opportunities to improve and protect long-term water quality in the CV groundwater basins

- Help to ensure a sustainable water supply

- Develop a comprehensive monitoring strategy to protect beneficial uses of CV groundwater supplies
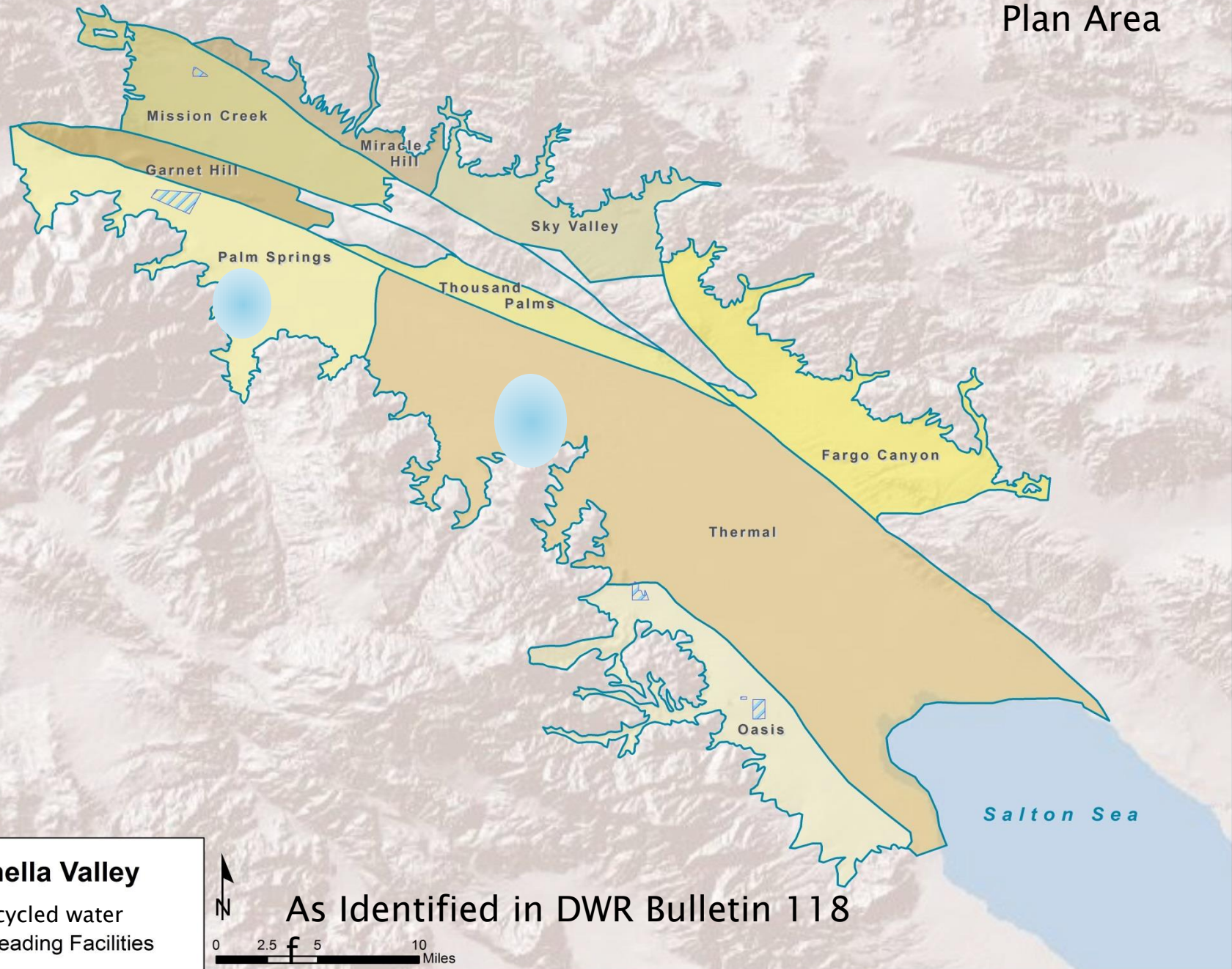
Participants

- Technical Group
  - CVWD, DWA, IWA, CWA
  - Montgomery Watson Harza (MWH)
  - RWQCB Staff

- Stakeholder Group
  - Discharge Permit holders
  - Cities
  - Riverside County
  - Tribes
  - Agricultural and Golf Industries
    - Current and future users of recycled water

DESERT
HOT SPRINGS

MISSION CREEK

GARNET
HILL

INDIO HILLS

DESERT
HOT
SPRINGS

PALM
SPRINGS

CATHEDRAL
CITY

RANCHO MIRAGE

PALM DESERT

INDIO

INDIAN
WELLS

LA QUINTA

COACHELLA

WHITEWATER
(INDIO)

Salton Sea

| | CVWD | | City of Coachella (including Sphere of Influence) | | Myoma Dunes Mutual Water Company |
| | DWA | | City of Indio (including Sphere of Influence) | | Semi Waterbearing Rocks |

Plan Area

Mission Creek

Miracle Hill

Garnet Hill

Sky Valley

Palm Springs

Thousand Palms

Fargo Canyon

Thermal

Oasis

Salton Sea

Coachella Valley

Recycled water

Spreading Facilities

As Identified in DWR Bulletin 118

N

0   2.5   5   10
                    Miles
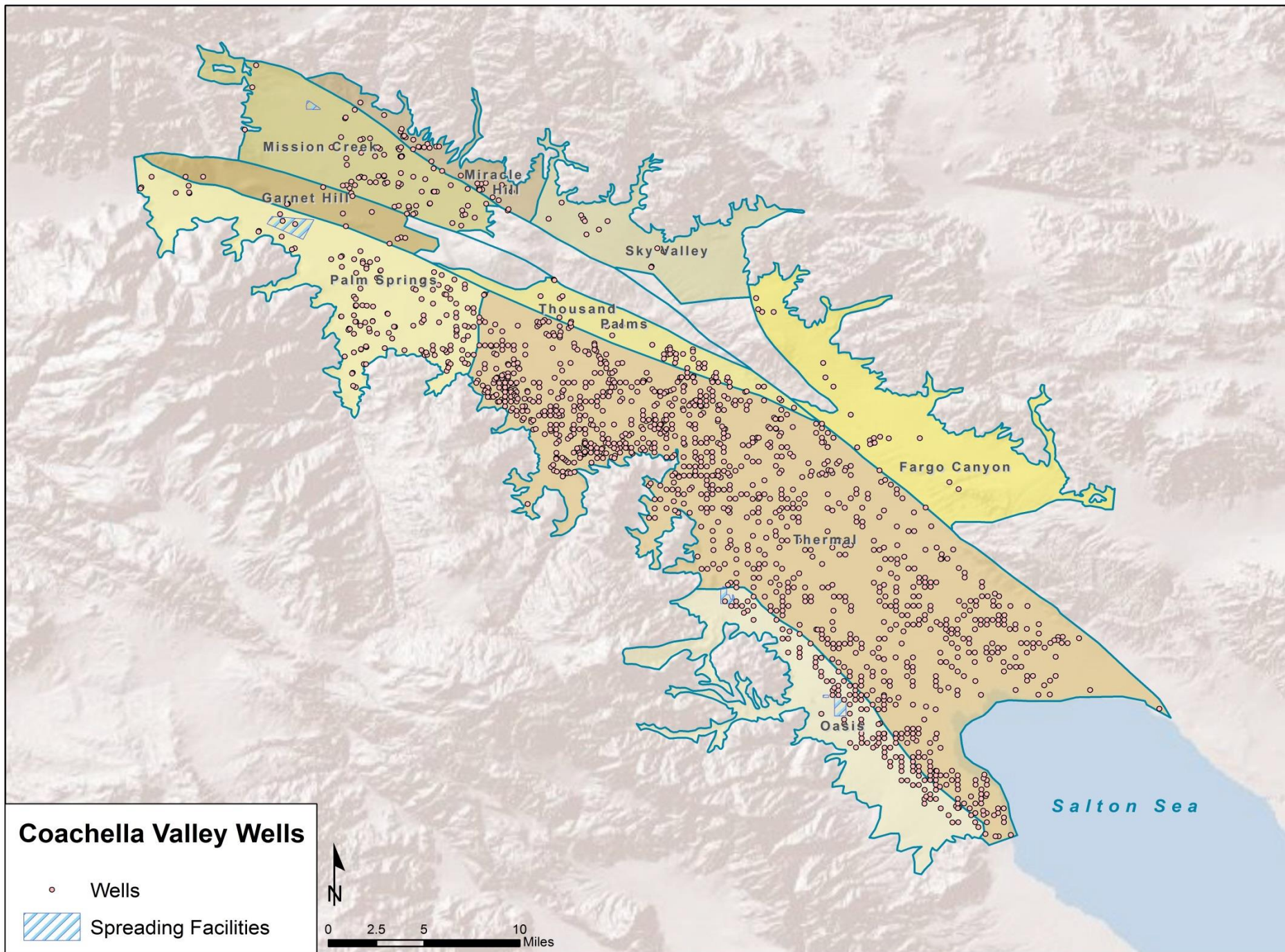
Development of the SNMP for the Coachella Valley
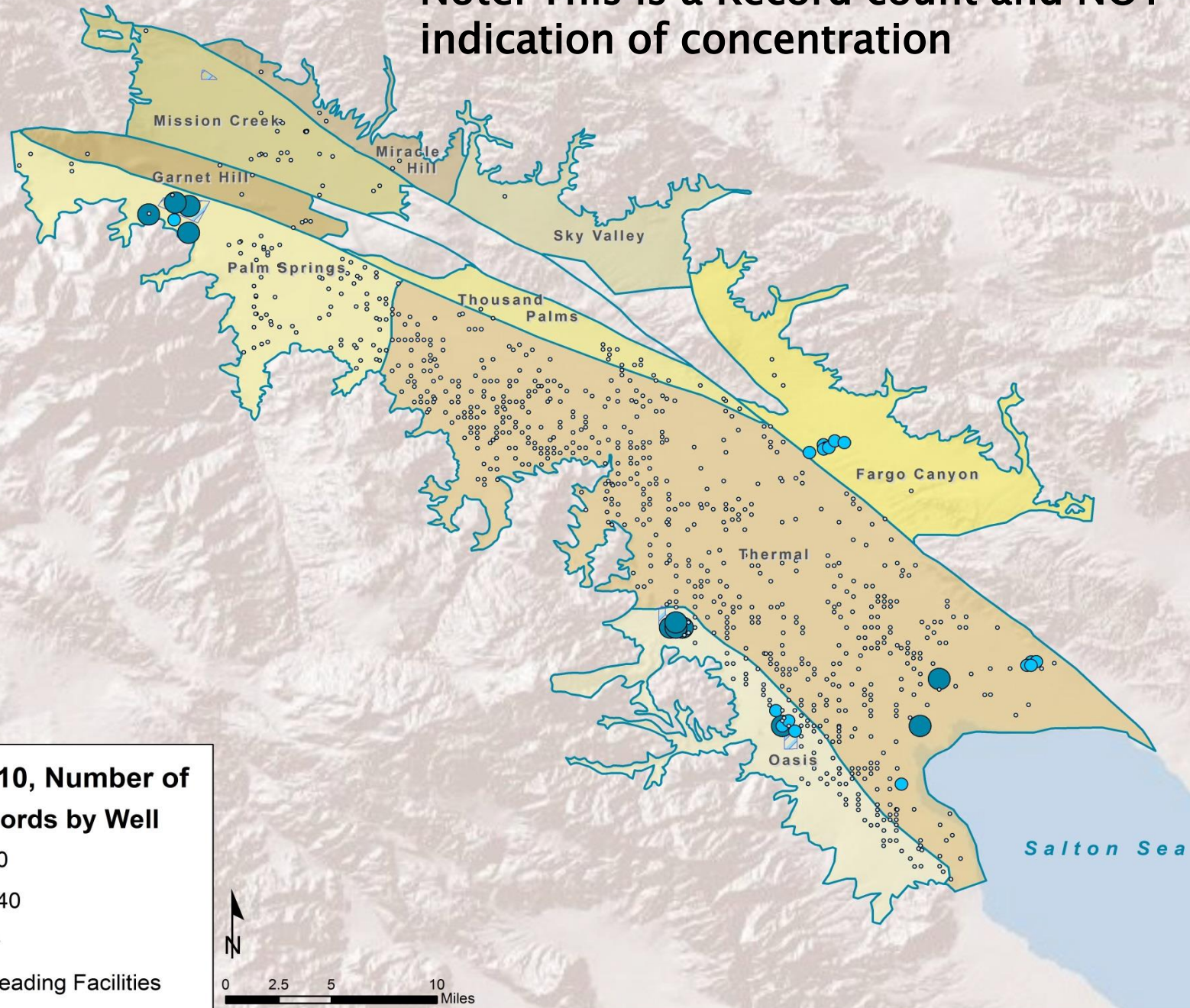
- Data review and basin characterization

- Calculate the exiting water quality for salts and nutrients

- Identify Sources and sinks of salts and nutrients

- Identify management activities and develop monitoring program to protect water quality

Coachella Valley Wells

- ○ Wells
- ▨ Spreading Facilities

Mission Creek
Miracle Hill
Garnet Hill
Sky Valley
Palm Springs
Thousand Palms
Fargo Canyon
Thermal
Oasis
Salton Sea

0 2.5 5 10
Miles

N

Note: This is a Record count and NOT an indication of concentration

Mission Creek

Miracle Hill

Garnet Hill

Sky Valley

Palm Springs

Thousand Palms

Fargo Canyon

Thermal

Oasis

Salton Sea

1991-2010, Number of TDS Records by Well

- 0-20
- 21-40
- 41+

Spreading Facilities

N

0   2.5   5   10
Miles

Note: This is a Record count and NOT and indication of concentration

1991-2010, Number of
NO3 Records by Well

- ○ 0-40
- ● 41-80
- ● 81+
- ▨ Spreading Facilities

Mission Creek
Garnet Hill
Miracle Hill
Sky Valley
Palm Springs
Thousand Palms
Fargo Canyon
Thermal
Oasis
Salton Sea

N

0   2.5   5   10
                   Miles
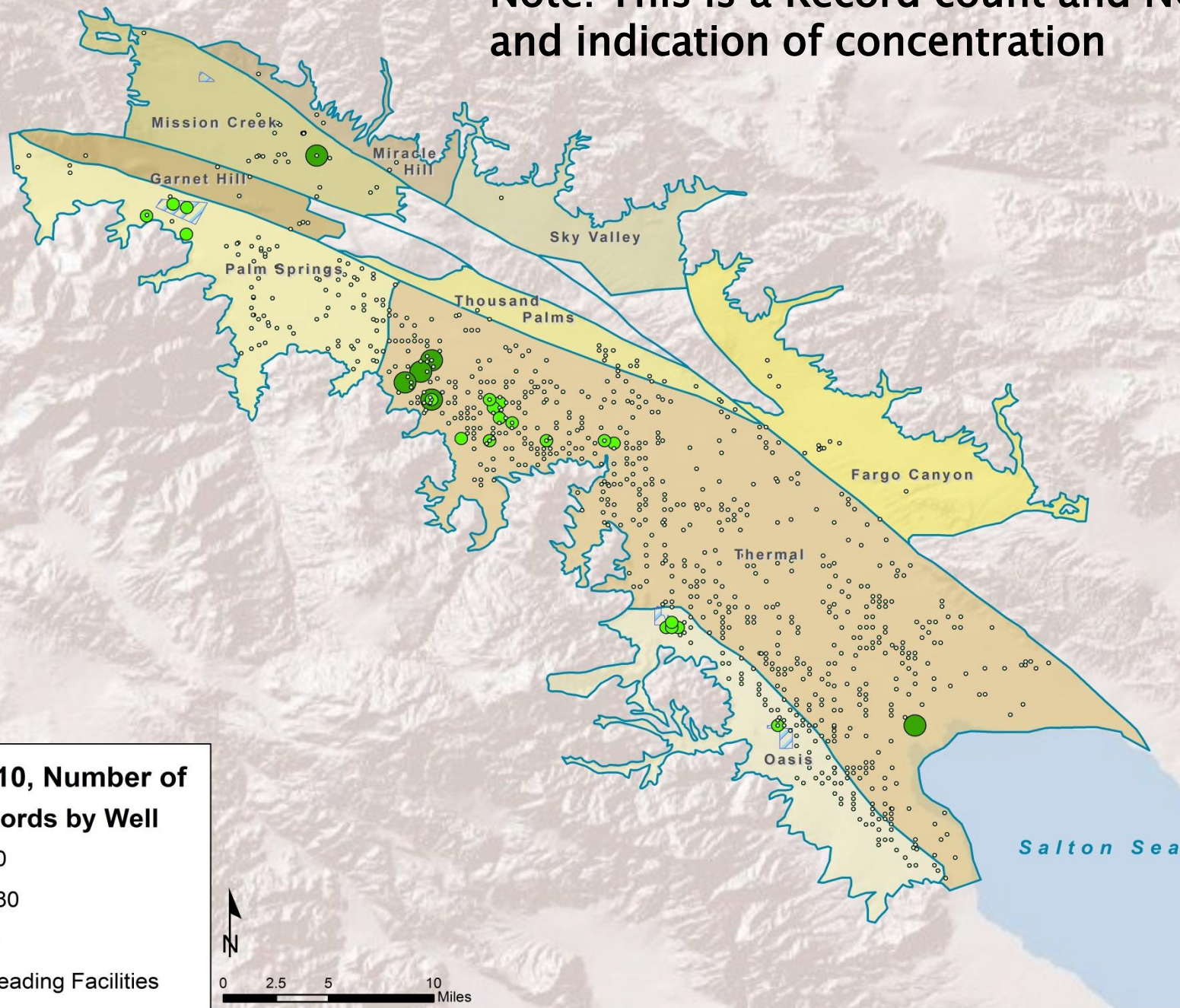
Schedule and Next Steps

▶ Data Collection 95% complete

▶ SNMP completed by March, 2015
  ◦ A request for an extension will be submitted to the Executive Officer for approval this week.

▶ Submittal of Completed Plan to RWQCB
  ◦ April 31, 2015

▶ First Stakeholder Meeting:
  ◦ **Wednesday, June 4, 2014 2:00 p.m.**
  ◦ CVWD Palm Desert

Questions?

For more information, please contact Patti Reyes preyes@cvwd.org