

#### DRAFT WORK PRODUCT



## Borrego Valley Groundwater Basin Borrego Springs Subbasin

# **Groundwater Dependent Ecosystems (GDEs)**Approach in GSP

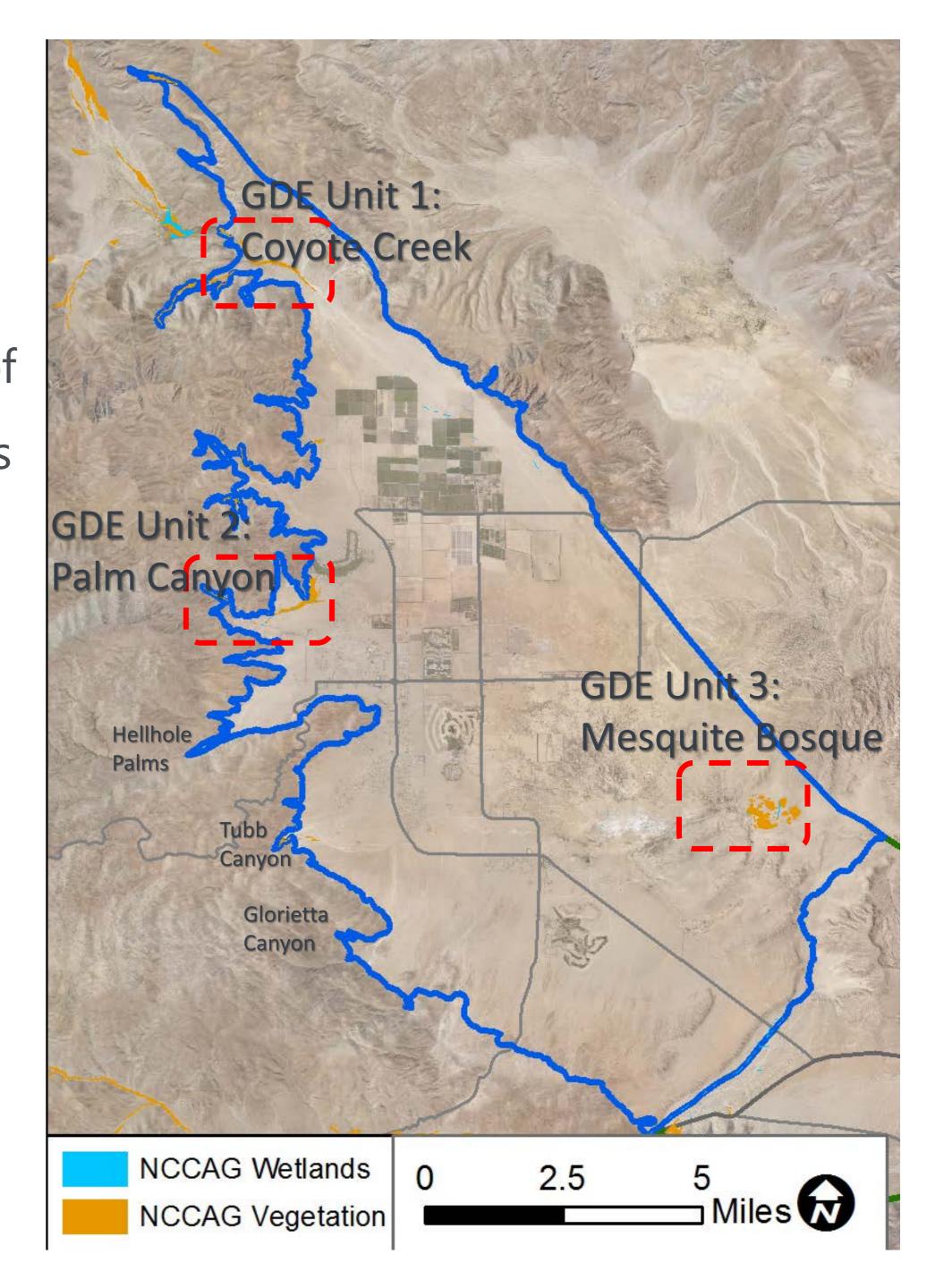
Advisory Committee Meeting

January 31, 2019

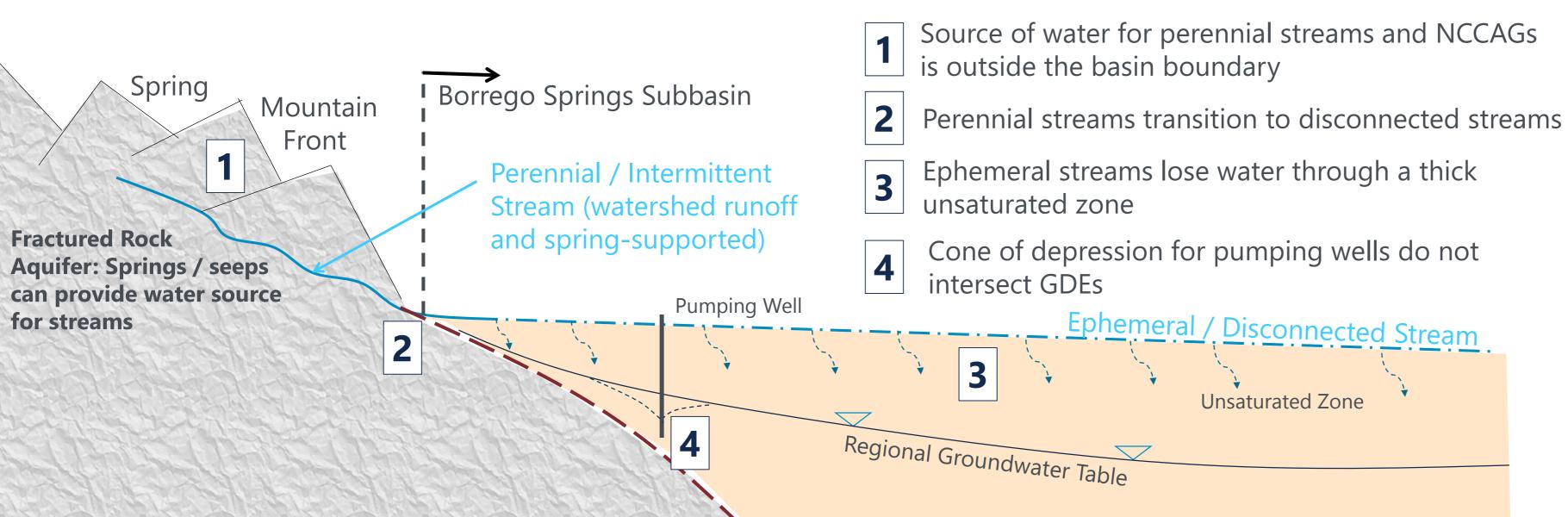


### **GSP Chapter 2 Evaluates GDEs**

- □ GDEs are defined under SGMA as "ecological communities of species that depend on groundwater *emerging* from aquifers or on groundwater *occurring near the ground surface*" (23 CCR § 351(m)).
- ☐ Identification of potential GDEs is based on DWR's Natural Communities Commonly Associated with Groundwater (NCCAG) Dataset and USGS surface water data.
- ☐ GSP Chapter 2 examines potential GDEs based on:
  - ☐ Adjacent watersheds and surface water flow records
  - ☐ Distance between mapped community and static groundwater level

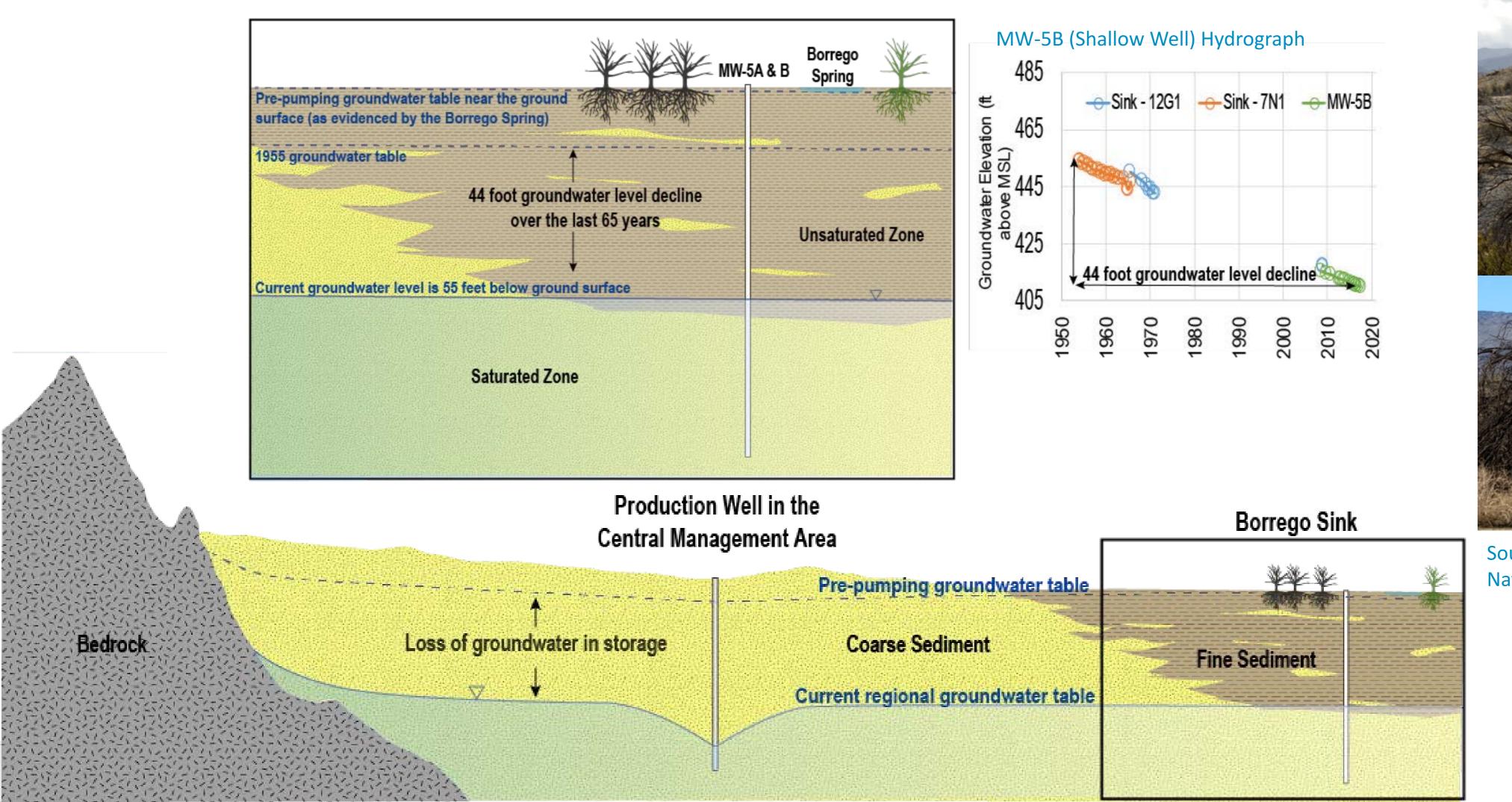


- ☐ Pumping wells currently do not take water that would otherwise be available to potential GDE's
  - ☐ GDE's are supported by storm flows and flowing springs outside the subbasin's boundaries
  - ☐ Water accessed by GDE's exists in the unsaturated zone:
    - ☐ Percolating surface water
    - ☐ Localized zones of perched water





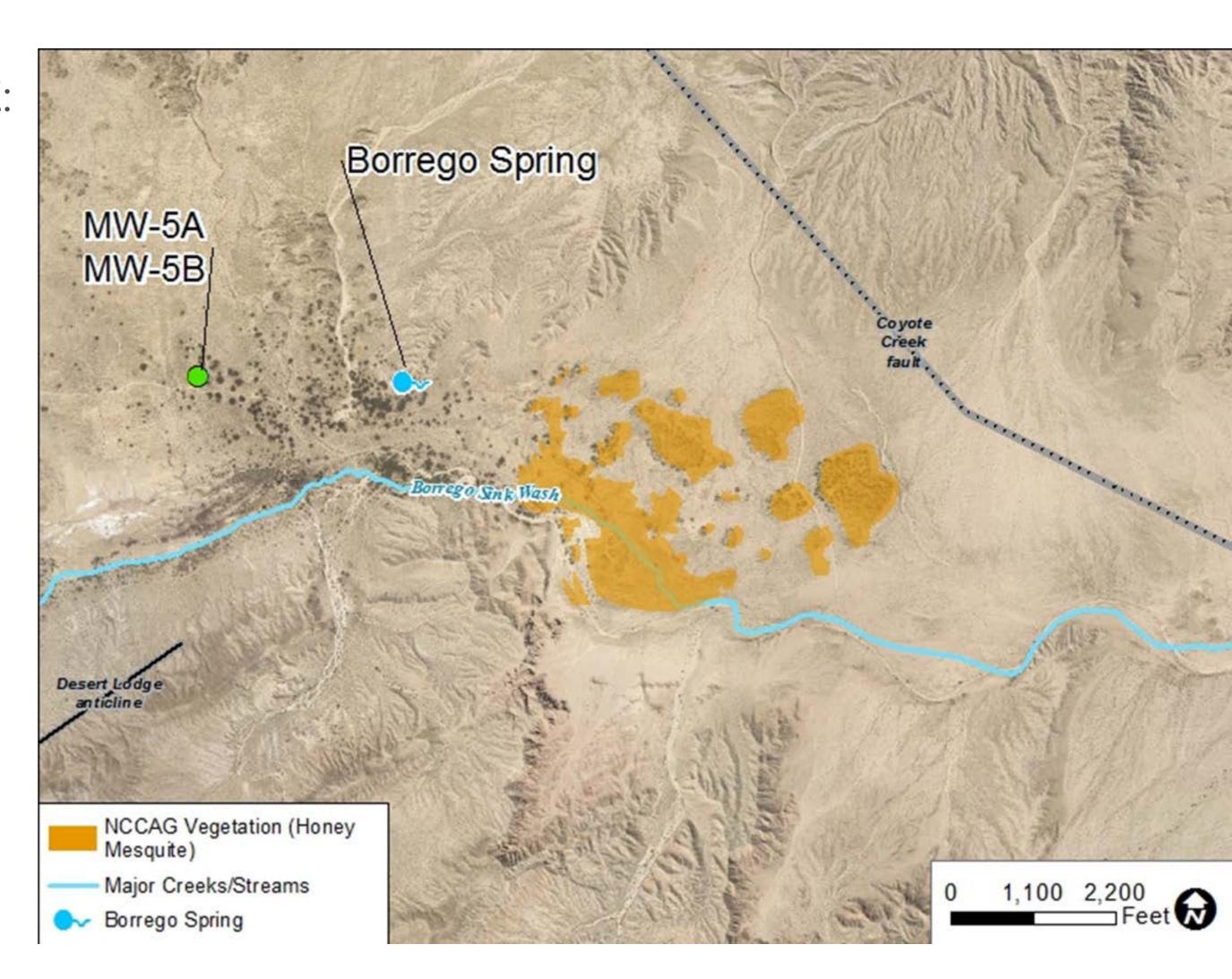






Source of Photographs: Anza-Borrego Desert Natural History Association, 2018

- ☐ Depth to static groundwater near each potential GDE:
  - ➤ Borrego Sink: 55 feet below land surface
- ☐ Old Borrego Spring
  - Documented to have dried prior to 1963
- NCCAG Mapped Vegetation
  - Located east of fold axes such as Desert Lodge Anticline



□ Depth to static groundwater in wells near each GDE:
□ Coyote Creek: 288 feet (Horse Camp Well)
□ Palm Canyon: 348 feet btoc (State Park Well No. 3)
□ Borrego Sink: 55 feet btoc (MW 5)
☐ The GSP evaluated DWR mapped NCCAG wetlands and vegetation and determined that they are not dependent
on the regional groundwater table (rely on surface water, soil moisture and/or perched groundwater)
☐ The GSP does not define minimum thresholds, measurable objectives, or interim milestones for GDEs
☐ GSP describes undesirable results that historically occurred to phreatophytes in and around the Borrego Sink
however,
$lue{}$ SGMA does not require correction of undesirable results that occurred prior to 2015
☐ Remaining areas mapped as potential GDEs are dependent on percolating storm flows and water sources
originating outside the basin (i.e., climate-driven rather than depending on static groundwater level).