

# Vernal Pool Management and Monitoring 2019



Parks and Recreation Department/ Open Space Division

Natural Resource Management





## What is it?

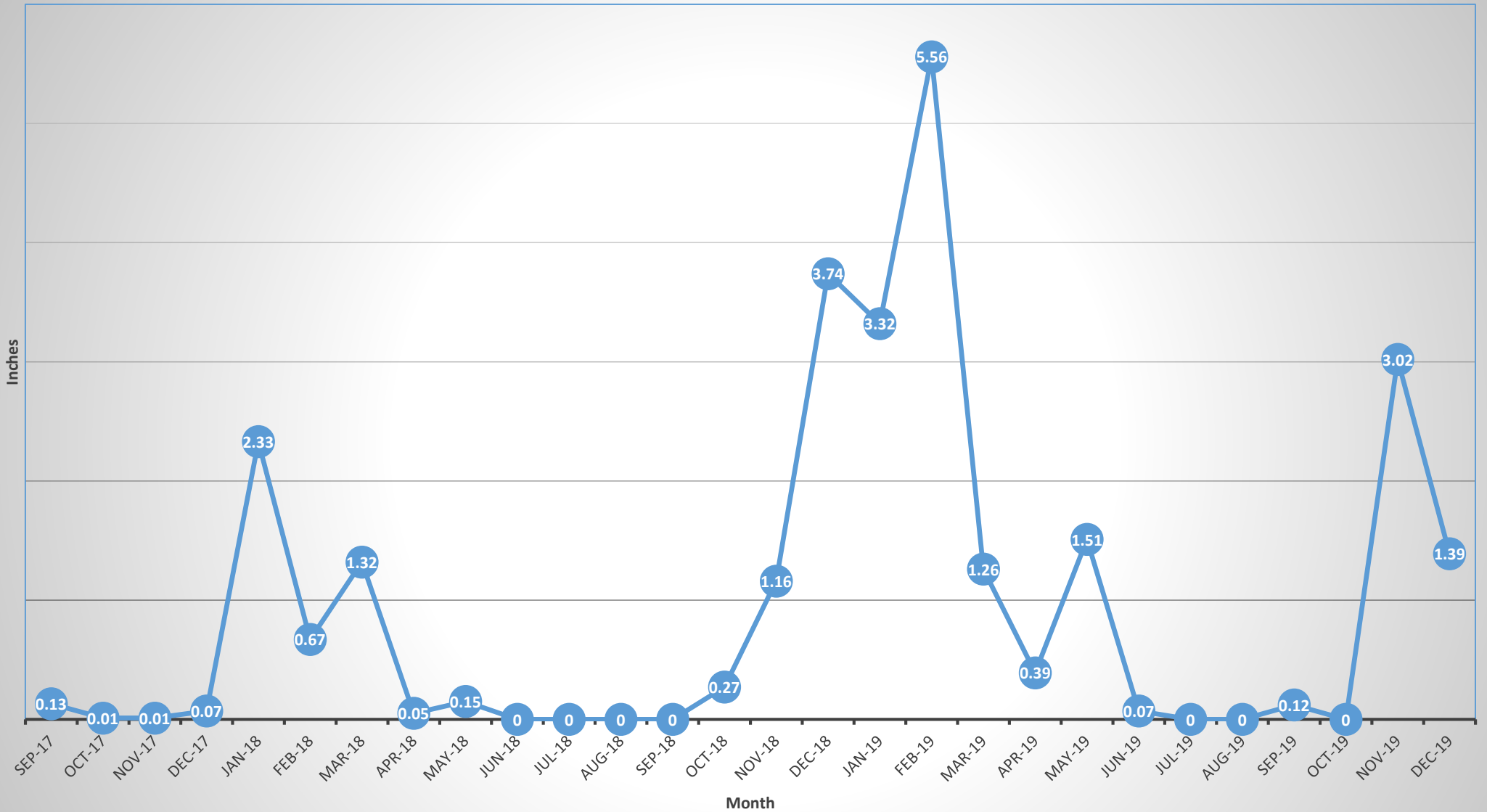
The City of San Diego Vernal Pool Habitat Conservation Plan (VPHCP) adopted January 2018 is intended to provide an effective framework to protect, enhance, and restore vernal pool resources within the City of San Diego, while improving and streamlining the environmental permitting process for impacts to threatened and endangered species associated with vernal pools. The VPHCP provides coverage for threatened and endangered vernal pool species that do not currently have federal coverage under the City of San Diego's Multiple Species Conservation Program Subarea Plan. The VPHCP is compatible with the MSCP and expands upon the City's existing Multi-Habitat Planning Area to conserve additional lands with vernal pool resources.

## What species are covered?

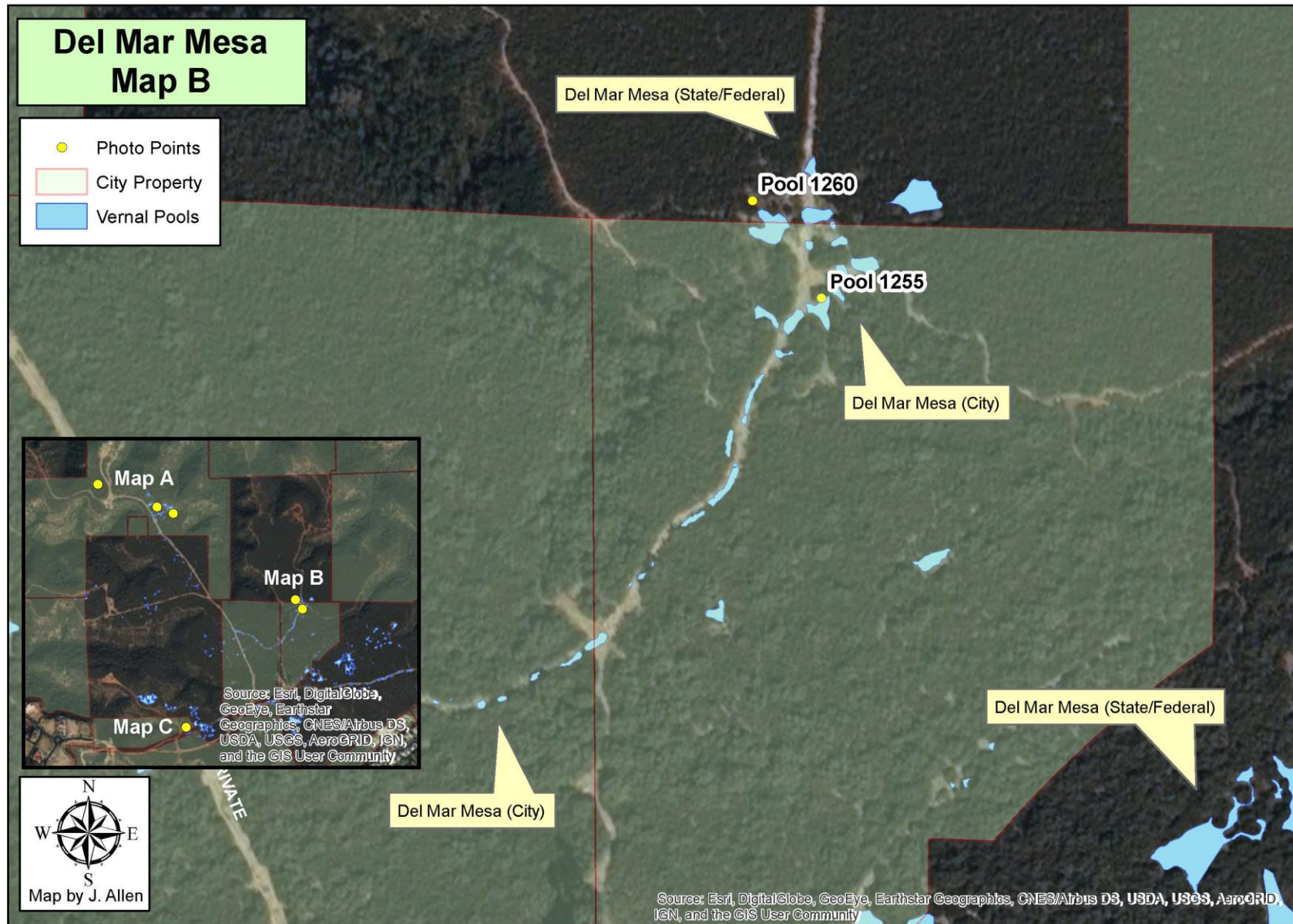
- Otay Mesa mint (*Pogogyne nudiuscula*, PONU)
- San Diego Mesa mint (*Pogogyne abramsii*, POAB)
- Spreading navarretia (*Navarretia fossalis*, NAFO)
- San Diego button-celery (*Eryngium aristulatum* var. *parishii*, ERAR)
- California Orcutt grass (*Orcuttia californica*, ORCA)
- Riverside fairy shrimp (*Streptocephalus woottoni*, RFS)
- San Diego fairy shrimp (*Branchinecta sandiegonensis*, SDFS)



## Precipitation at Mission Trails Regional Park











## ***Del Mar Mesa***

Vernal Pool ID: 1255



5/23/2018





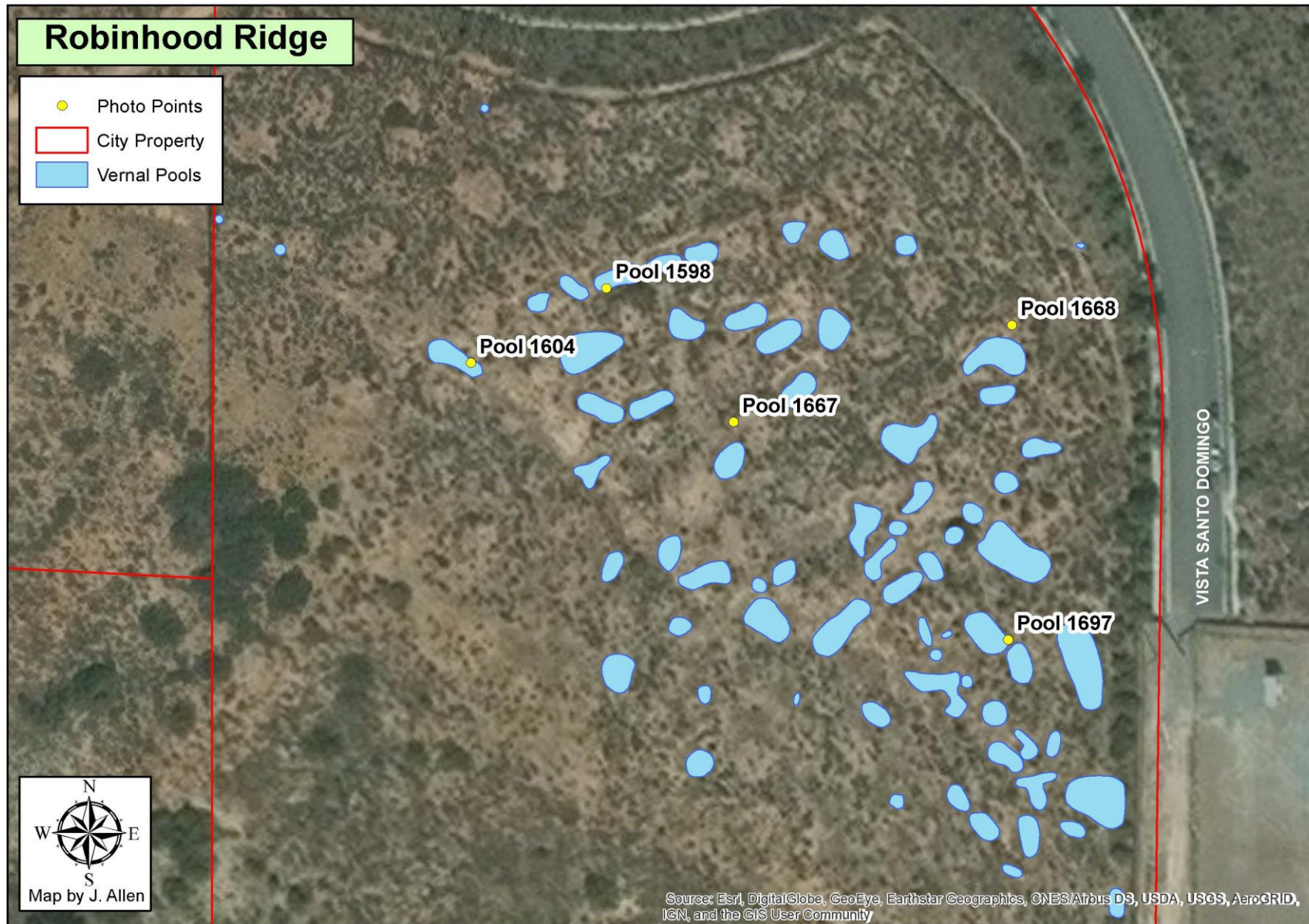
## ***Del Mar Mesa***

Vernal Pool ID: 1255



5/31/2019









## ***Robinhood Ridge***

Vernal Pool ID: 1598



4/20/2018





## ***Robinhood Ridge***

Vernal Pool ID: 1598



5/9/2019









## ***Carroll Canyon***

Vernal Pool ID: 1096



4/30/2018





## ***Carroll Canyon***

Vernal Pool ID: 1096



5/02/2019









## ***Cal Terraces South***

Vernal Pool ID: 2039



5/22/2018





## ***Cal Terraces South***

Vernal Pool ID: 2039



5/16/2019







A photograph of a vernal pool landscape. The foreground is filled with dense, low-lying purple flowers. Behind them are clumps of tall, green grasses and some yellow wildflowers. In the background, there are cacti and a fence line under a cloudy sky.

# THANK YOU!

*Jason Allen: Vernal Pool Biologist, Sara Allen: MSCP Biologist, Doug  
Allen: Fairy Shrimp Biologist  
Jessie Lane , Diana Brand-Ramirez: Program Interns*





Questions ??

