



Public
Utilities



Groundwater
Sustainability Plan:
Technical Peer Review
Land Use
and
Well to Parcel Assignments

Draft

Subject Review Request: 2005 and 2018 Land Use

Attention Sandra Carlson/City of San Diego Jim Bennett/County of San Diego
Nicole McGinnis/City of San Diego Leanne Crow/County of San Diego
Michael Bolouri/City of San Diego Nancy Karas/County of San Diego

From Nate Brown/Jacobs
Craig Cooledge/Jacobs

Date July 6, 2020

Copies to John Ayres/W&C
Paula Silva/Jacobs
Jason Smesrud/Jacobs

Attached to this cover sheet are the preliminary working draft 2005 and 2018 land use maps prepared by Jacobs Engineering Group (Jacobs) on behalf of the San Pasqual Valley (SPV) Groundwater Sustainability Agency (GSA). The following information sources were used for this effort:

- SanDAG/SanGIS land use data
- Comments received from Rancho Guejito on the SanDAG land use data
- San Diego County land use survey performed by CA DWR (1998)
- 2014 and 2016 Land IQ land use classifications provided by CA DWR
- *San Pasqual Valley Groundwater Basin Salt and Nutrient Management Plan* (SNMP) (CH2M HILL 2014) land use classifications and Google Earth™ historical aerial imagery

Of the information sources listed above, we mostly relied upon 2018 aerial imagery and land use mapping we developed for the City of San Diego during preparation of the SNMP. Although information was also gleaned from the other sources listed, some of this information was deemed either inaccurate or incomplete in adequately representing land use details at the resolution needed to support development of the Groundwater Sustainability Plan (GSP) numerical flow model. This flow model will be used to compute historical, current, and future water budgets per GSP Regulations.

We need the GSA members' and SPV stakeholders' help by reviewing and assessing the accuracy of the information provided on the 2005 and 2018 land use maps. The specific feedback we need is as follows:

- Revisions/Mark-ups (if needed) to the 2005 and 2018 land use classifications (e.g., crop type)
- Revisions/Mark-ups (if needed) to 2005 and 2018 land use classification boundaries
- The year at which the land use classification changed from 2005 conditions to 2018 conditions (if applicable)

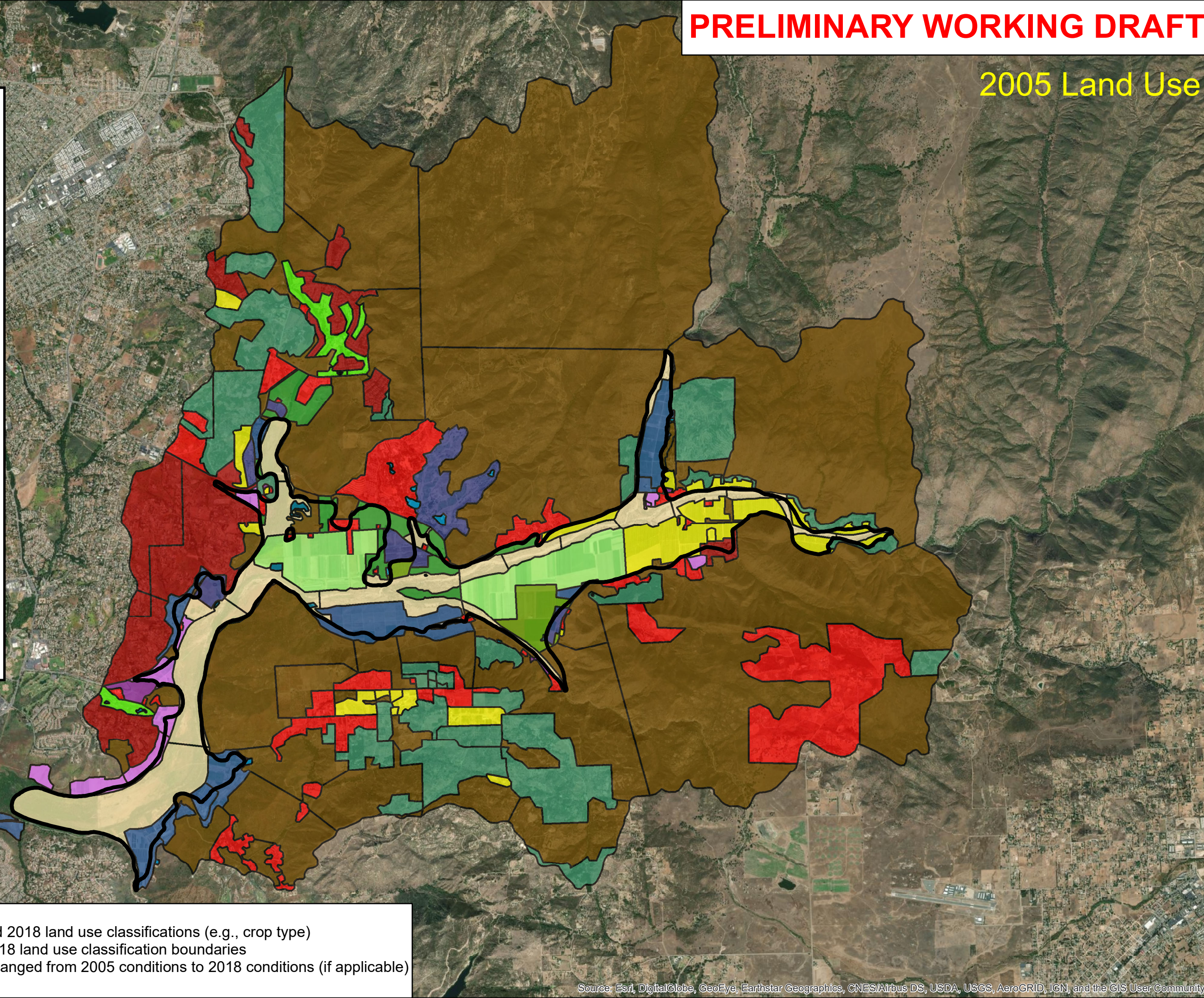
We would sincerely appreciate your willingness to improve the accuracy of this information. Please send your feedback to Sandra Carlson (carlsons@sandiego.gov) by July 16, 2020 and she will get the information to the Jacobs modeling team.

Legend

SPV Groundwater Subbasin

2005 Land Use Classification

- Avocado
- Citrus
- Grapevines
- Truck Crops
- Nursery
- Greenhouse
- Feedlot
- Idle
- Golf Course
- Winter Forage
- Summer Forage
- Native Shrub
- Riparian
- Turfgrass
- Urban Landscape
- Rural Landscape
- Open Water - Groundwater
- Open Water - Irrigation



Feedback Needed

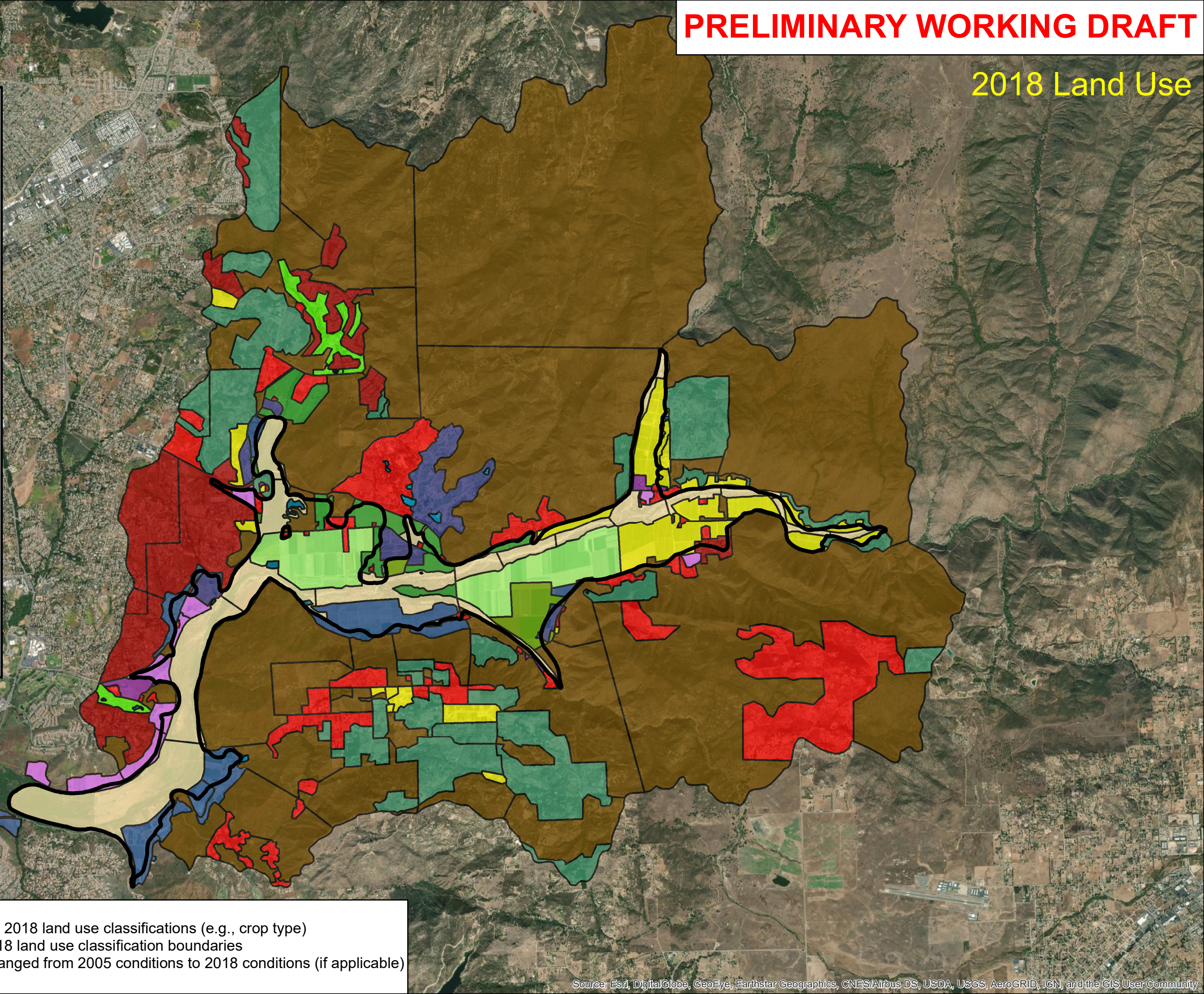
- Revisions/Mark-ups (if needed) to the 2005 and 2018 land use classifications (e.g., crop type)
- Revisions/Mark-ups (if needed) to 2005 and 2018 land use classification boundaries
- The year at which the land use classification changed from 2005 conditions to 2018 conditions (if applicable)

Legend

 SPV Groundwater Subbasin

2018 Land Use Classification

-  Avocado
-  Citrus
-  Grapevines
-  Truck Crops
-  Nursery
-  Greenhouse
-  Feedlot
-  Idle
-  Golf Course
-  Winter Forage
-  Summer Forage
-  Native Shrub
-  Riparian
-  Turfgrass
-  Urban Landscape
-  Rural Landscape
-  Open Water - Groundwater
-  Open Water - Irrigation



Feedback Needed

- Revisions/Mark-ups (if needed) to the 2005 and 2018 land use classifications (e.g., crop type)
- Revisions/Mark-ups (if needed) to 2005 and 2018 land use classification boundaries
- The year at which the land use classification changed from 2005 conditions to 2018 conditions (if applicable)

Subject Review Request: Well-to-parcel Associations

Attention Sandra Carlson/City of San Diego Jim Bennett/County of San Diego
Nicole McGinnis/City of San Diego Leanne Crow/County of San Diego
Michael Bolouri/City of San Diego Nancy Karas/County of San Diego

From Nate Brown/Jacobs
Craig Cooledge/Jacobs

Date July 6, 2020

Copies to John Ayres/W&C
Paula Silva/Jacobs
Jason Smesrud/Jacobs

Attached to this cover sheet is a map showing preliminary working draft associations of parcels and the groundwater pumping wells that supply water to these parcels, under current conditions. This preliminary working draft map was prepared by Jacobs Engineering Group (Jacobs) on behalf of the San Pasqual Valley (SPV) Groundwater Sustainability Agency (GSA). The following information sources were used for this effort:

- *San Pasqual Valley Groundwater Basin Salt and Nutrient Management Plan (SNMP)* (CH2M HILL 2014) mapping effort completed in conjunction with City of San Diego staff
- City of San Diego Wells & City Leases Map (2018) and Domestic Water Supply Schematic (2016)
- City of San Diego master well database and Rancho Guejito wells GIS layer
- San Diego County well completion reports

Of the information sources listed above, we mostly relied upon information provided by the SPV GSA and information acquired and used during the development of the SNMP. The well-to-parcel associations are needed to support development of the Groundwater Sustainability Plan (GSP) numerical flow model, which will be used to compute historical, current, and future water budgets per GSP Regulations.

We need the GSA members' and SPV stakeholders' help by reviewing and assessing the accuracy of the information provided on the map. The specific feedback we need is as follows:

- Status of well from 2004 through 2019 (active vs inactive)
- Timing of well status change (e.g., years when inactive vs active)
- Revisions/Mark-ups (if needed) to preliminary well-to-parcel associations
- Any pumping wells that are missing or otherwise misrepresented
- Well type (irrigation vs domestic)

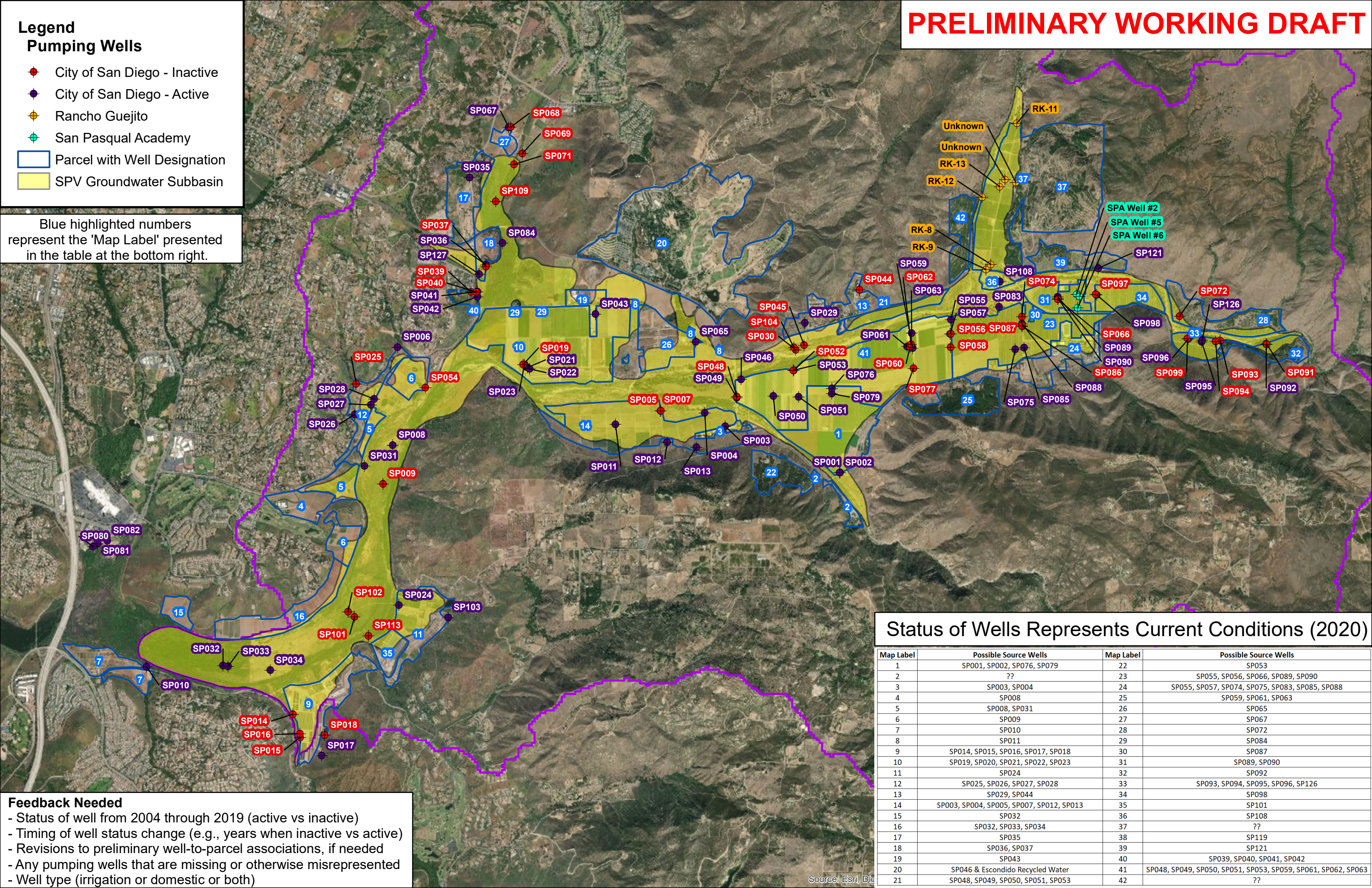
We would sincerely appreciate your willingness to improve the accuracy of this information. Please send your feedback to Sandra Carlson (carlsons@sandiego.gov) by July 16, 2020 and she will get the information to the Jacobs modeling team.

Legend
Pumping Wells

- City of San Diego - Inactive
- City of San Diego - Active
- Rancho Guejito
- San Pasqual Academy
- Parcel with Well Designation
- SPV Groundwater Subbasin

Blue highlighted numbers represent the 'Map Label' presented in the table at the bottom right.

PRELIMINARY WORKING DRAFT



Status of Wells Represents Current Conditions (2020)

Map Label	Possible Source Wells	Map Label	Possible Source Wells
1	SP001, SP002, SP076, SP079	22	SP053
2	??	23	SP055, SP056, SP066, SP089, SP090
3	SP003, SP004	24	SP055, SP057, SP074, SP075, SP083, SP085, SP088
4	SP008	25	SP059, SP061, SP063
5	SP008, SP031	26	SP065
6	SP009	27	SP067
7	SP010	28	SP072
8	SP011	29	SP084
9	SP014, SP015, SP016, SP017, SP018	30	SP087
10	SP019, SP020, SP021, SP022, SP023	31	SP089, SP090
11	SP024	32	SP092
12	SP025, SP026, SP027, SP028	33	SP093, SP094, SP095, SP096, SP126
13	SP029, SP044	34	SP098
14	SP003, SP004, SP005, SP007, SP012, SP013	35	SP101
15	SP032	36	SP108
16	SP032, SP033, SP034	37	??
17	SP035	38	SP119
18	SP036, SP037	39	SP121
19	SP043	40	SP039, SP040, SP041, SP042
20	SP046 & Escondido Recycled Water	41	SP048, SP049, SP050, SP051, SP053, SP059, SP061, SP062, SP063
21	SP048, SP049, SP050, SP051, SP053	42	??

Feedback Needed

- Status of well from 2004 through 2019 (active vs inactive)
- Timing of well status change (e.g., years when inactive vs active)
- Revisions to preliminary well-to-parcel associations, if needed
- Any pumping wells that are missing or otherwise misrepresented
- Well type (irrigation or domestic or both)