

Merced GSP Coordination Committee

Coordination Committee Meeting – April 25, 2022

Meeting will begin at 3 pm or a few minutes after – thank you for joining us!

**Merced Irrigation-Urban GSA
Merced Subbasin GSA
Turner Island Water District GSA-1**

Image courtesy: Veronica Adrover/UC Merced

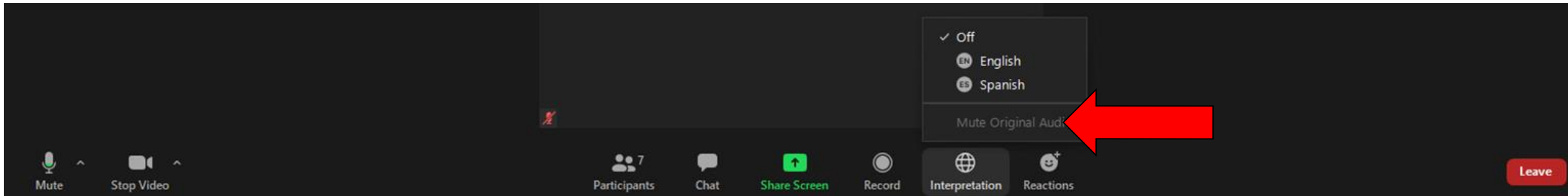
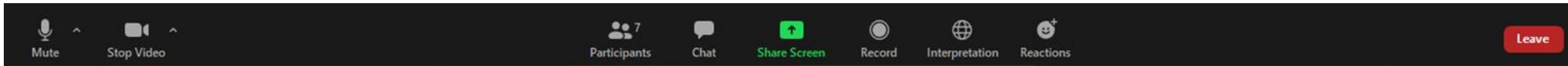


Welcome, Instructions for Zoom

Bienvenidos, Instrucciones para Zoom

We have two language audio channels available. English only speakers, please select English.

Si solamente habla español, debe seleccionar un canal de idioma



The meeting will have simultaneous interpreting, so you are welcome to comment in your native language.
La junta será interpretada simultáneamente, así que le invitamos a que haga comentarios en su lenguaje nativo.

Agenda

1. Call to Order and Welcome
2. Roll Call
3. State of Emergency Teleconference Findings
4. Approval of March 21, 2022 Meeting Minutes
5. Public Comment
6. Reports
 - a) GSA Reports
 - b) Current Basin Conditions
7. Potential Revisions to the Groundwater Sustainability Plan
8. Next Steps and Adjourn

Image courtesy: Veronica Adrover/UC Merced

Roll Call

Representative	GSA
Hicham ElTal	Merced Irrigation-Urban GSA
Stephanie Dietz	Merced Irrigation-Urban GSA
Justin Vinson	Merced Irrigation-Urban GSA
Daniel Chavez	Merced Irrigation-Urban GSA
Ken Elwin (<i>alternate</i>)	Merced Irrigation-Urban GSA
Mike Gallo	Merced Subbasin GSA
Nic Marchini	Merced Subbasin GSA
Eric Swenson	Merced Subbasin GSA
George Park (<i>alternate</i>)	Merced Subbasin GSA
Kel Mitchel	Turner Island Water District GSA #1
Tim Allan (<i>alternate</i>)	Turner Island Water District GSA #1

Image courtesy: Veronica Adrover/UC Merced



State of Emergency Teleconference Findings

Image courtesy: Veronica Adrover/UC Merced

State of Emergency Teleconference Findings

- All meetings of the Committee's legislative bodies are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963), so that any member of the public may attend, participate, and watch the Committee's legislative bodies conduct their business
- The Brown Act, Government Code section 54953(e), makes provisions for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions
- Those conditions exist per the continuing State of Emergency due to the impacts of COVID-19.
- The Coordination Committee will consider the circumstances of the State of Emergency and determine whether to make the following findings that any of the circumstances exist per AB 361:
 - The State of Emergency continues to directly impact the ability of the members to meet safely in person and/or
 - State or Local Officials continue to impose or recommend measures to promote social distancing.

Image courtesy: Veronica Adrover/UC Merced



Approval of Meeting Minutes

Image courtesy: Veronica Adrover/UC Merced



Approval of Meeting Minutes

- March 21, 2022

Image courtesy: Veronica Adrover/UC Merced



Questions/Comments from Public:

If you would like to make a comment, please type the comment in the chat or raise your hand to request to be taken off mute



Reports

Image courtesy: Veronica Adrover/UC Merced



GSA Reports

- Updates from each GSA on activities they are undertaking in their own jurisdiction:
 - Merced Subbasin GSA
 - Merced Irrigation-Urban GSA
 - Turner Island Water District GSA #1

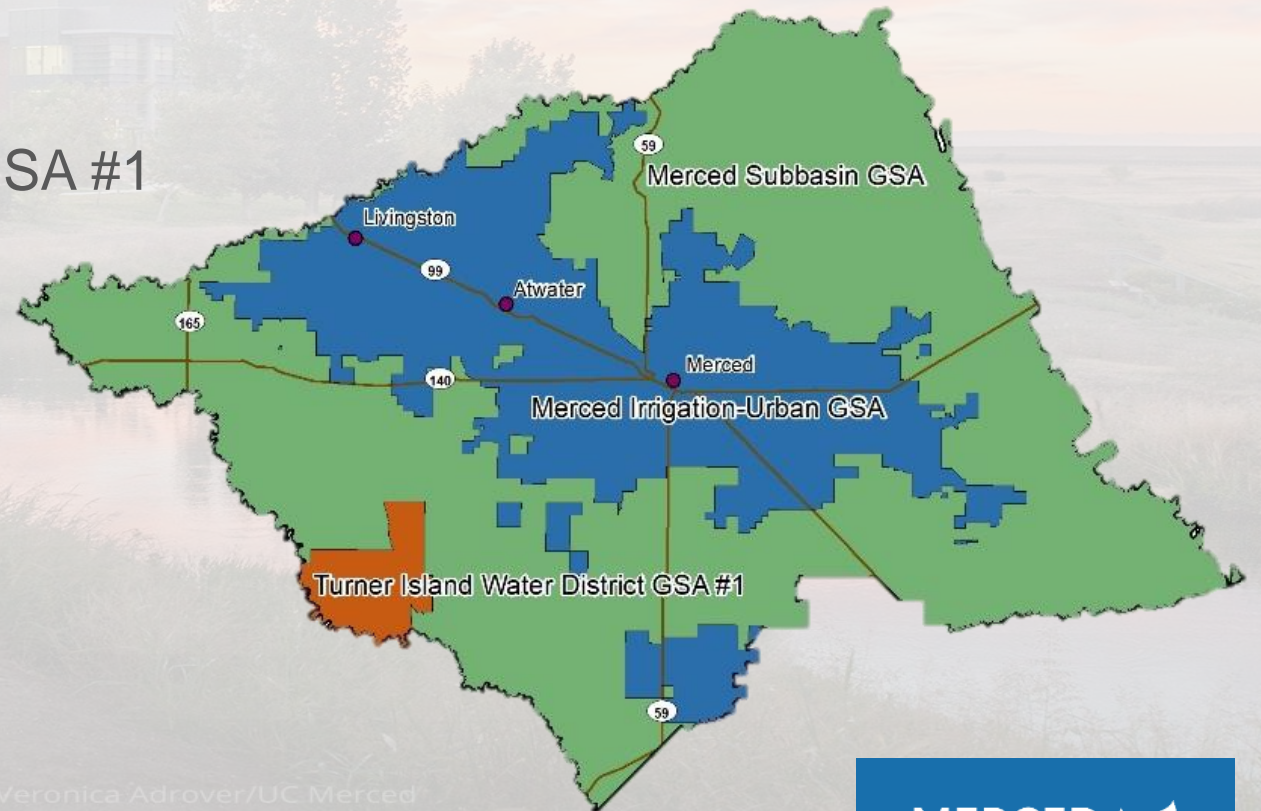


Image courtesy: Veronica Adrover/UC Merced

Current Basin Conditions

- (See PDF at end of slide deck)

Image courtesy: Veronica Adrover/UC Merced



Potential Revisions to the Groundwater Sustainability Plan

Image courtesy: Veronica Adrover/UC Merced

DWR GSP Comments Overview

1. The GSP lacks sufficient justification for identifying that undesirable results for chronic lowering of groundwater levels, subsidence, and depletion of interconnected surface waters can only occur in **consecutive non-dry water year types**
2. The GSP does not provide sufficient information to support the selection of **chronic lowering of groundwater levels** sustainable management criteria
3. The GSP does not provide sufficient information to support the selection of **land subsidence** sustainable management criteria

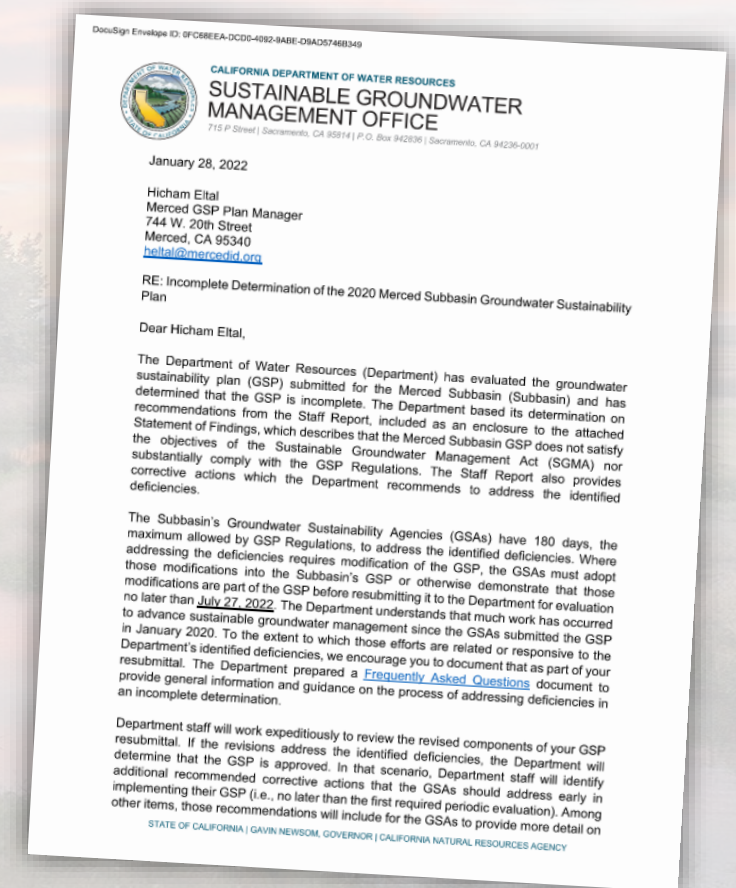
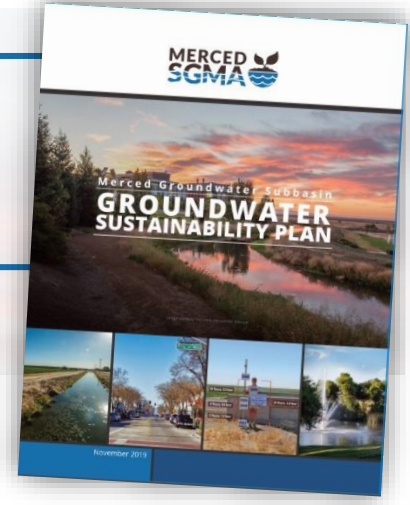
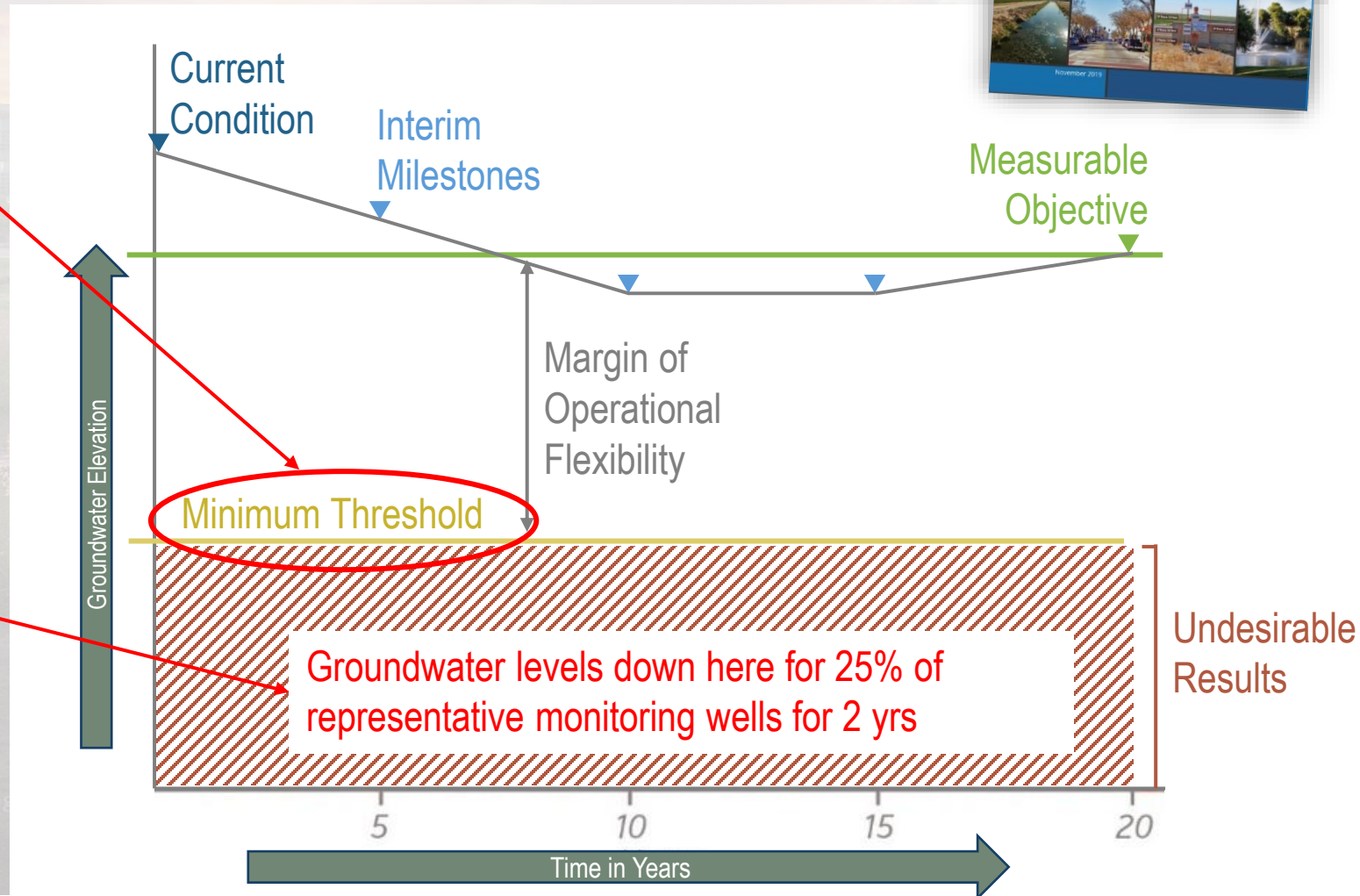


Image courtesy: Veronica Adrover/UC Merced

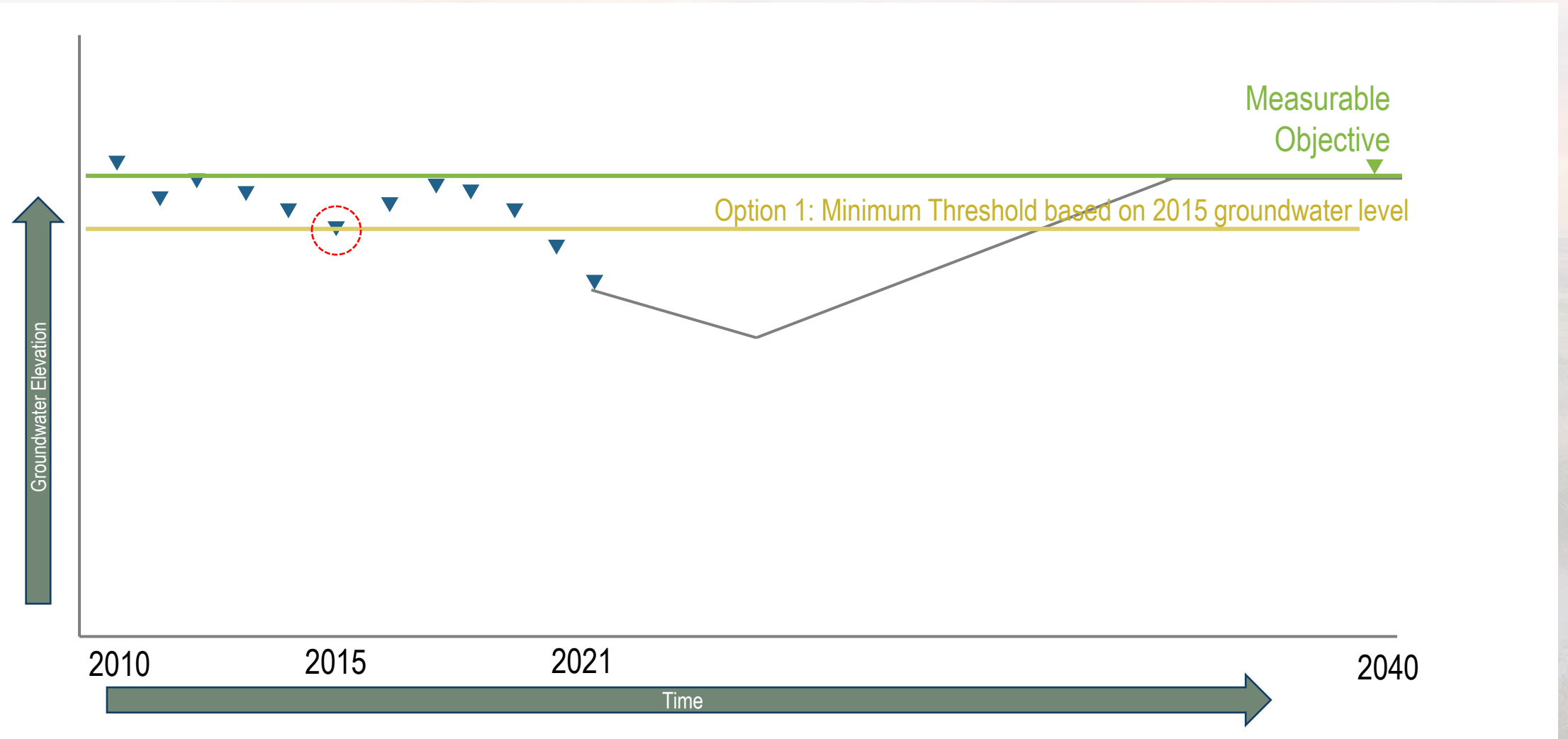
Groundwater Level Sustainable Management Criteria in the GSP



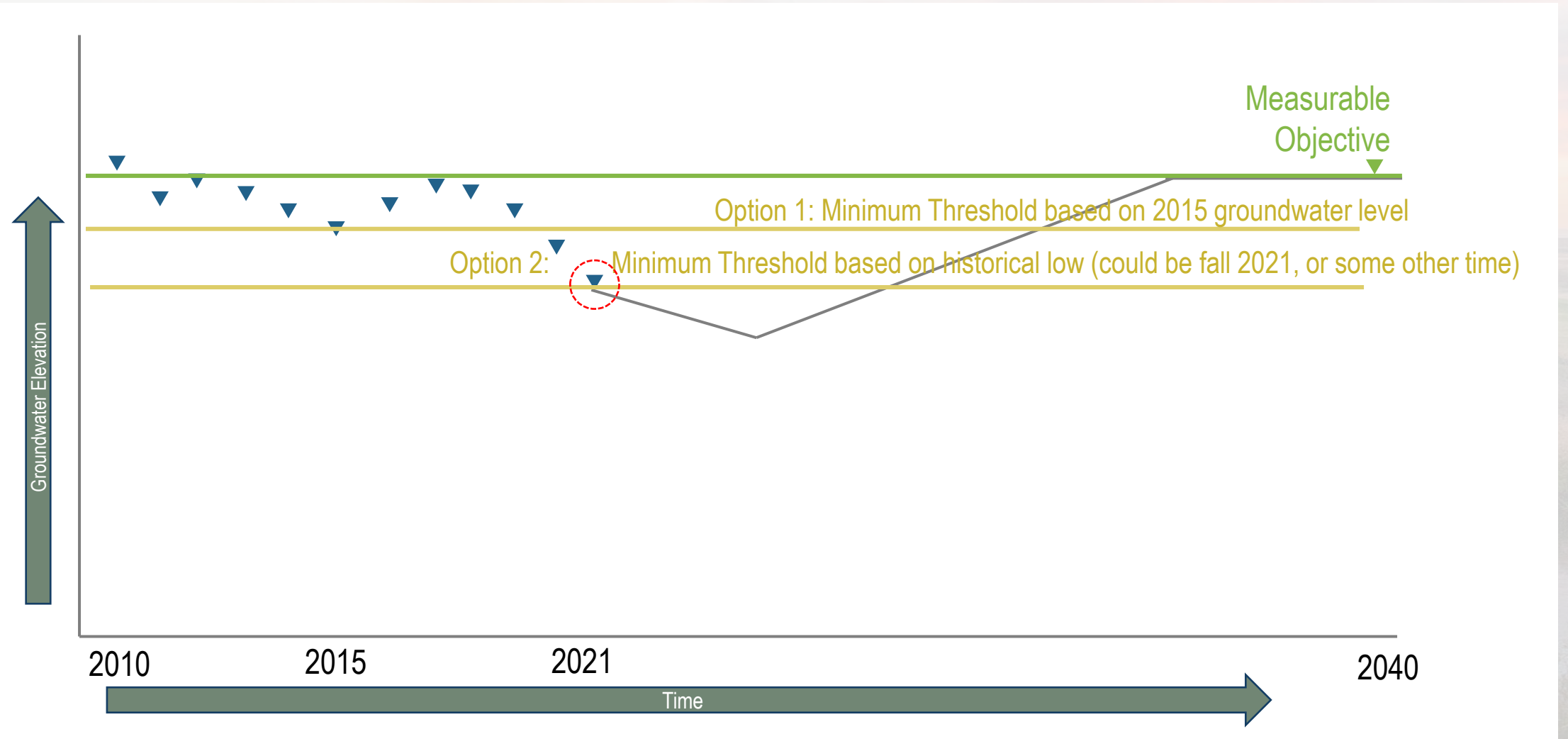
- Minimum Threshold based on: “construction depth of the shallowest domestic well within a 2-mile radius.”
- Definition of Undesirable Results: “...when November groundwater levels at greater than 25% of representative monitoring wells fall below their minimum thresholds for two consecutive years where both years are categorized hydrologically as below normal, above normal, or wet”



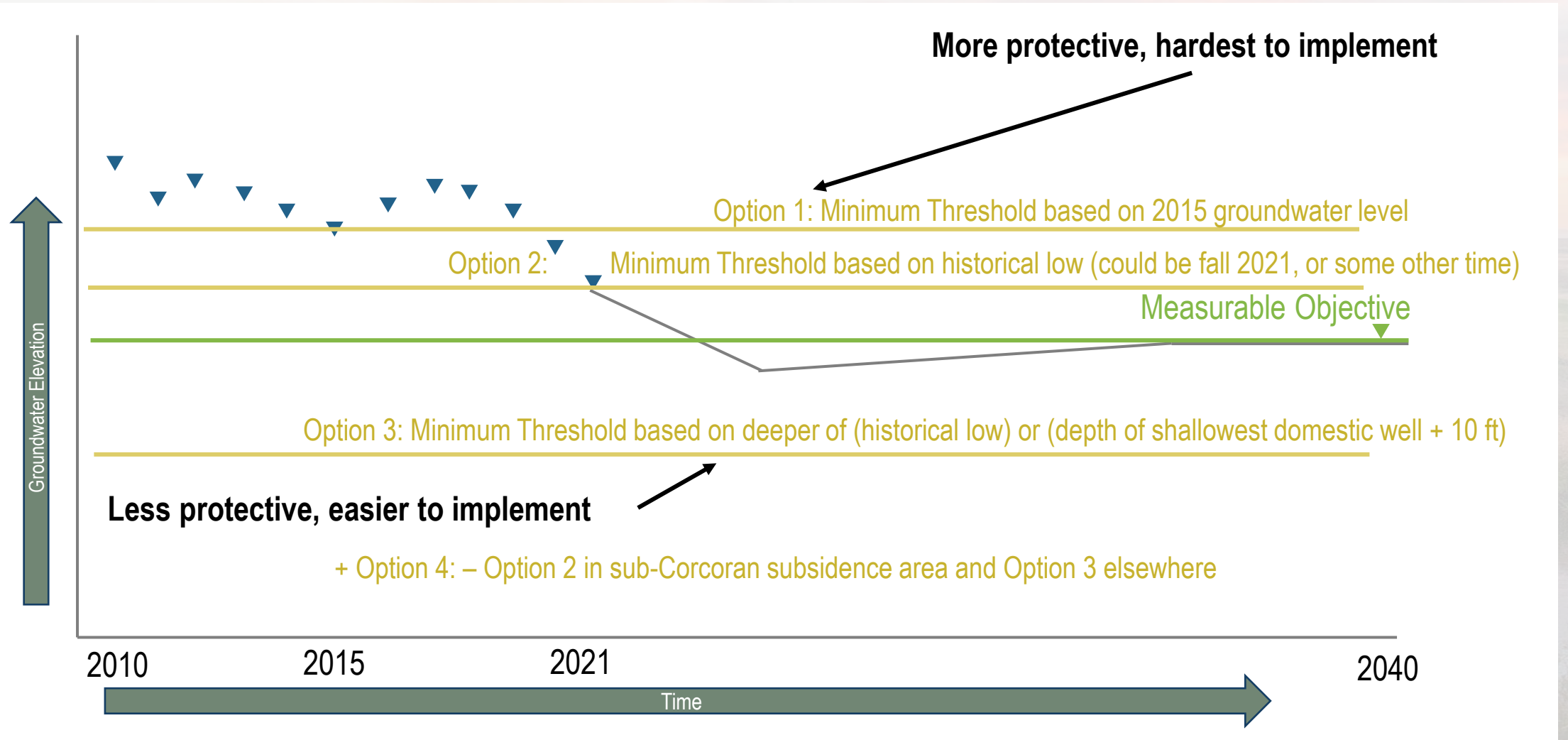
New Minimum Threshold Options Being Evaluated



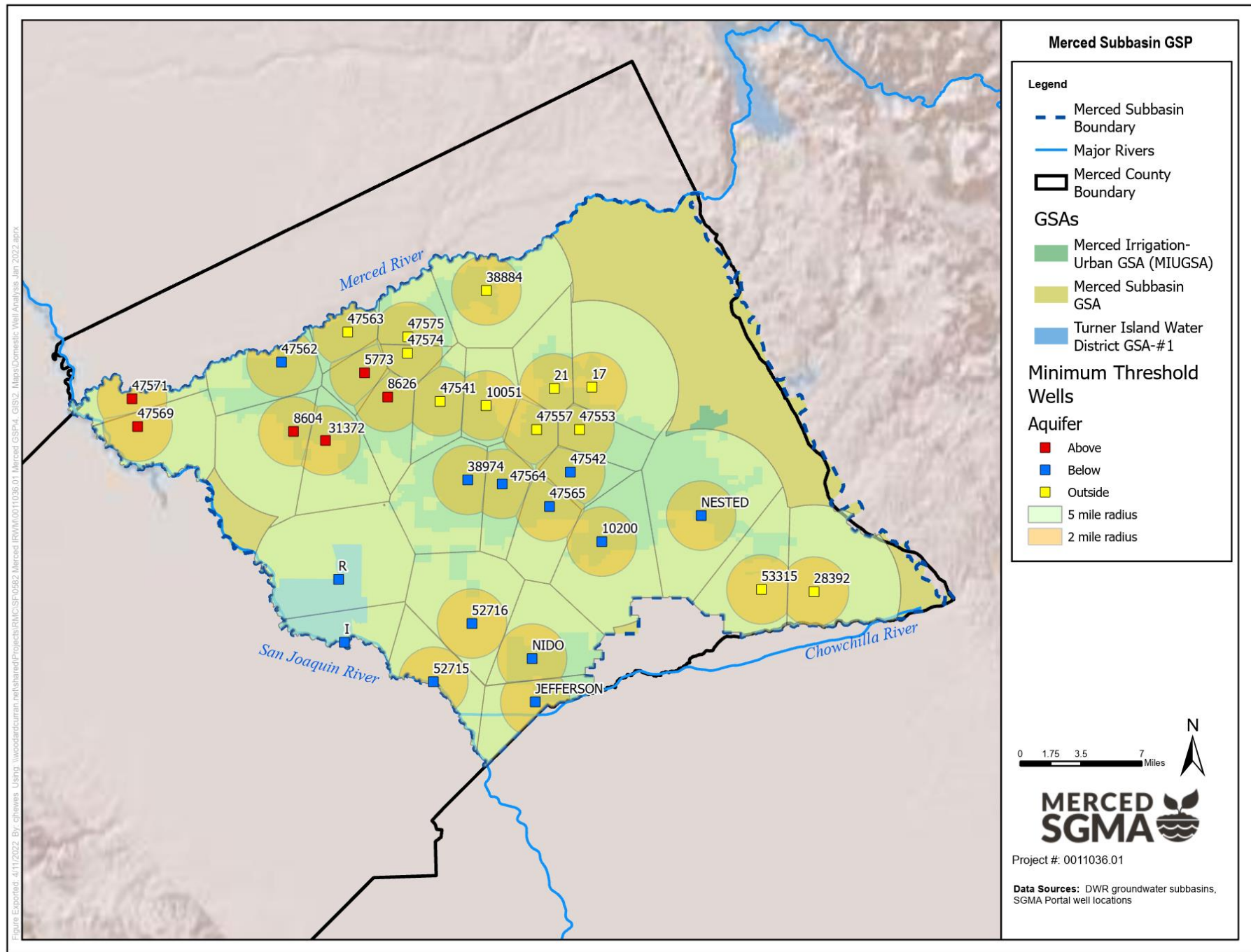
New Minimum Threshold Options Being Evaluated



New Minimum Threshold Options Being Evaluated



Expanded Radius (5 miles) for Domestic Wells + Public Water Supply Wells



Latest Minimum Threshold Scenario Being Evaluated (1 of 2)

- Subsidence area defined as Dec 2011 to Dec 2021 contour of 0.15 ft/year (US Bureau of Reclamation)
 - **Proposed minimum threshold:** Historical low groundwater level for below-Corcoran subsidence area
- All other areas
 - **Proposed minimum threshold is minimum of:**
 - Shallowest domestic well depth + 10 ft
 - Historical low groundwater level

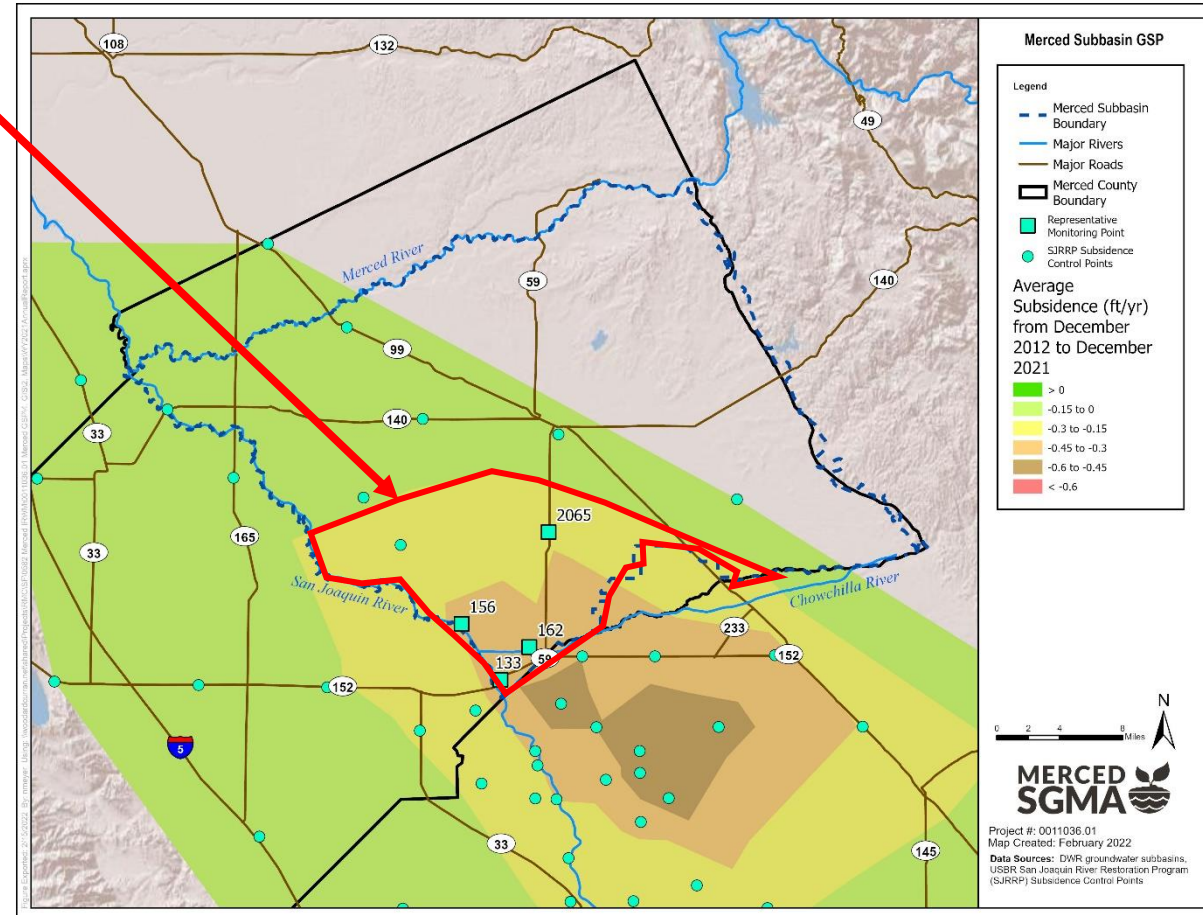


Image courtesy: Veronica

Latest Minimum Threshold Scenario Being Evaluated (2 of 2)

- Few representative wells located in the subsidence area
- Groundwater criteria could be met without meeting subsidence criteria
- Added criteria to help meet subsidence thresholds:
 - 0 change in long-term storage within sub-Corcoran subsidence area
 - Consideration of no negative storage conditions

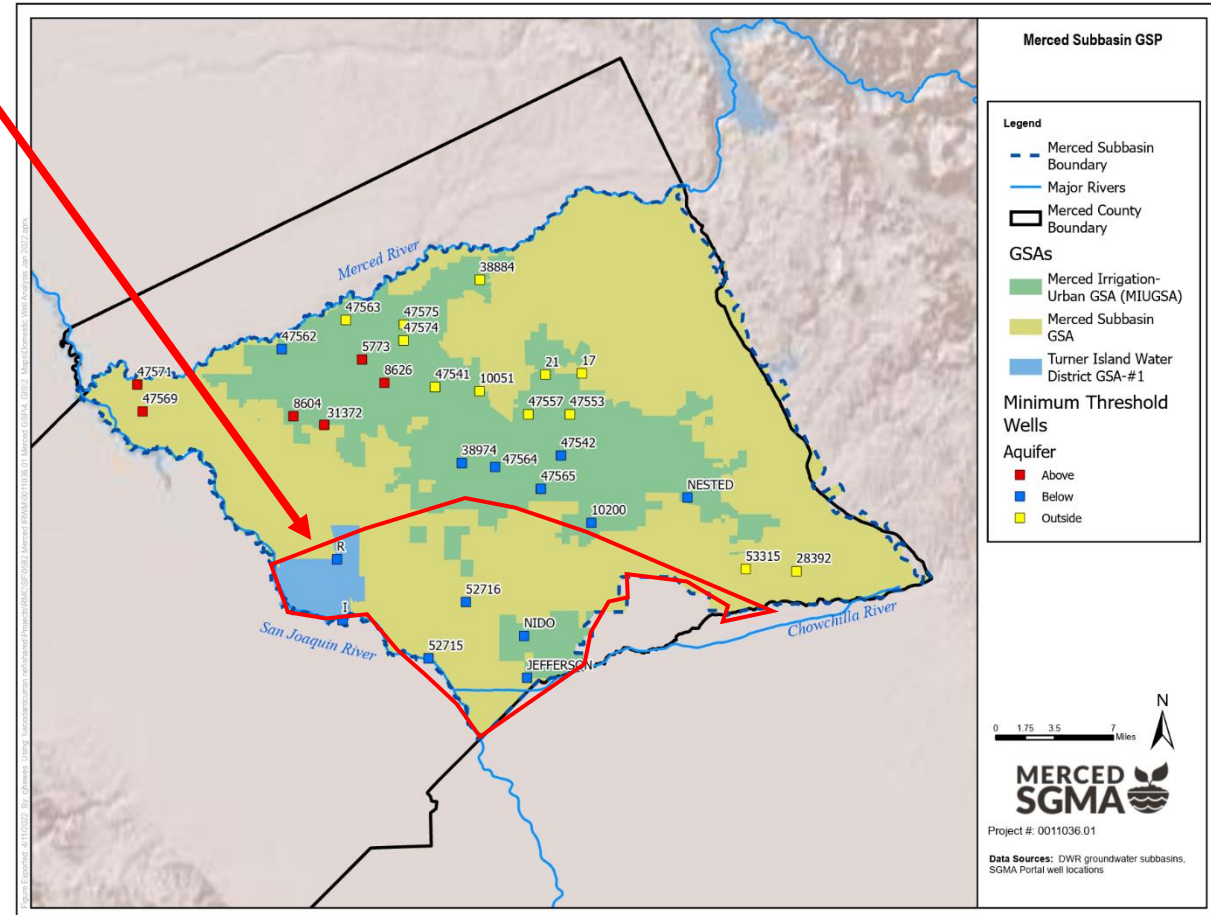


Image courtesy: Veronica

Storage Change Considerations

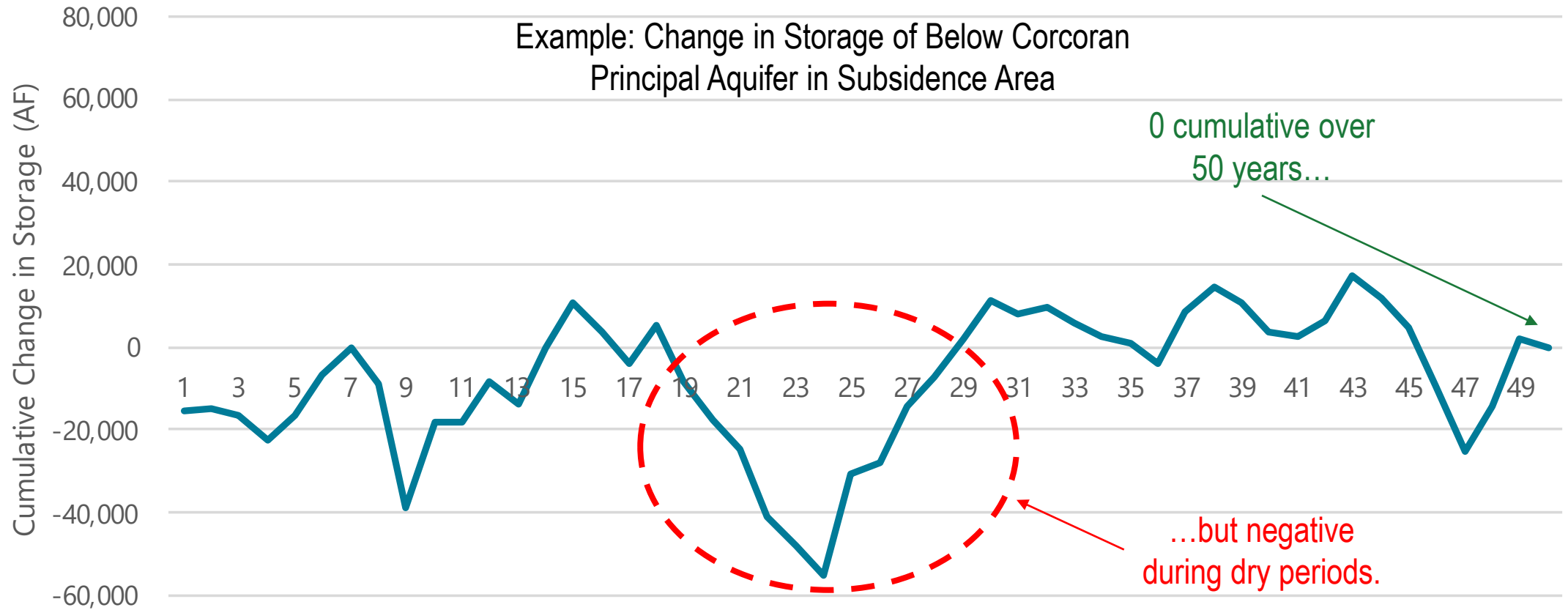


Image courtesy: Veronica Adrover/UC Merced

Storage Change Considerations

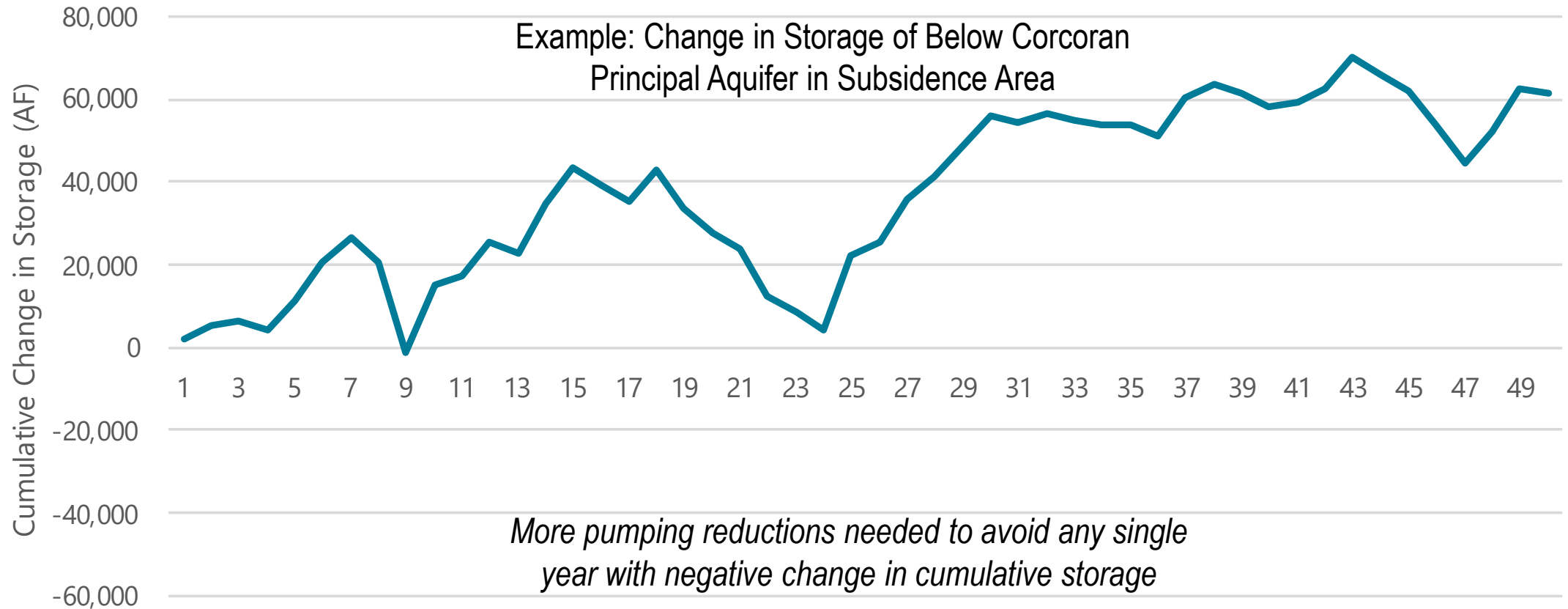


Image courtesy: Veronica Adrover/UC Merced

Analysis Approach

- Pumping reductions are ramped down from 2025-2035
- No changes in pumping reductions after 1 year of drought
- Model runs iteratively to identify the maximum pumping while avoiding undesirable results
- Pumping reduction based on four quadrants

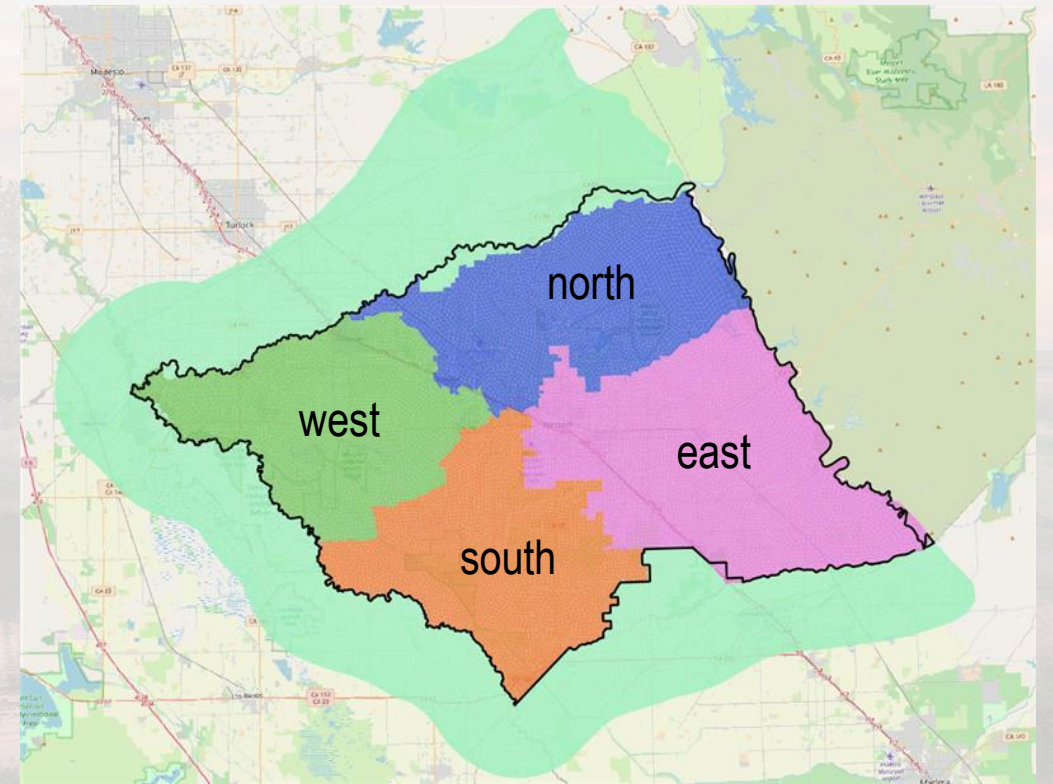


Image courtesy: Veronica Adrover/UC Merced

Further Consideration for Minimum Threshold Selection

- DWR's comment letter indicates other requirements for thresholds allowing continued decline in groundwater levels
- Use of domestic well depth criteria will allow for some continued decline in groundwater levels
- Effort will be necessary to:
 - Document the potential impacts to users
 - Monitor and manage potential impacts to water quality

Image courtesy: Veronica Adrover/UC Merced

Modeling Results

	Basis	Average Pumping Reduction	Complies with Groundwater Level Minimum Thresholds?	Long-Term Change in Storage, Below Corcoran Subsidence Area (over 50 years)	Minimum Annual Change in Storage, Below Corcoran Subsidence Area	Long-Term Change in Storage, Whole Basin (over 50 years)
0	Baseline (no pumping reductions)	0 AFY (0.0%)	No	-47,000 AF	-100,000 AF	-1,000,000 AF
GSP	Sustainable Yield Scenario published in GSP (goal of no long-term basinwide storage change)	66,000 AFY 10.7%	No	+30,000 AF	-36,000 AF	~0 AF
A	2015 groundwater levels	175,000 AFY 28.3%	Yes	+110,000 AF	+16,000 AF	+1,800,000 AF
B	Historical low groundwater levels	115,000 AFY 18.6%	Yes	+70,000 AF	+1,000 AF	+900,000 AF
C	Historical lows in subsidence area Domestic well depths + 10 feet elsewhere 0 long-term storage change in subsidence area	70,000 AFY 11.4%	Yes	+30,000 AF	-40,000 AF	+200,000 AF
D*	Historical lows in subsidence area Domestic well depths + 10 feet elsewhere Avoiding negative storage at any time after 2040 in subsidence area	115,000 AFY 18.6%	Yes	+70,000 AF	+1,000 AF	+900,000 AF

*Same model run as B

Image courtesy: Veronica Adrover/UC Merced

GSP Update Schedule

Week Starting	4/24	5/1	5/8	5/15	5/22	5/29	6/5	6/12	6/19	6/26	7/3	7/10	7/17	7/24
GWL SMC updates														
Subsidence SMC updates														
Prepare updated GSP redline														
GSA staff & CC review														
Comments incorporation														
Board review and adoption														
CC/SAC Meetings														
DWR Meetings														
Submit updated GSP to DWR														
Project Management														

Image courtesy: Veronica Adrover/UC Merced



Next Steps

Image courtesy: Veronica Adrover/UC Merced



What's coming up next?

- Adjourn to next meeting: late May 2022

Image courtesy: Veronica Adrover/UC Merced

Merced GSP Coordination Committee

Coordination Committee Meeting – April 25, 2022

**Merced Irrigation-Urban GSA
Merced Subbasin GSA
Turner Island Water District GSA-1**

Image courtesy: Veronica Adrover/UC Merced



Merced Subbasin GSP

Legend

- Merced Subbasin Boundary
- Major Rivers
- Major Roads
- Merced County Boundary

GSAs

- Merced Irrigation-Urban GSA (MIUGSA)
- Merced Subbasin GSA
- Turner Island Water District GSA #1
- Multiple Completion Well

Representative Monitoring Well*

- Above Corcoran Clay
- Below Corcoran Clay
- Outside Corcoran Clay

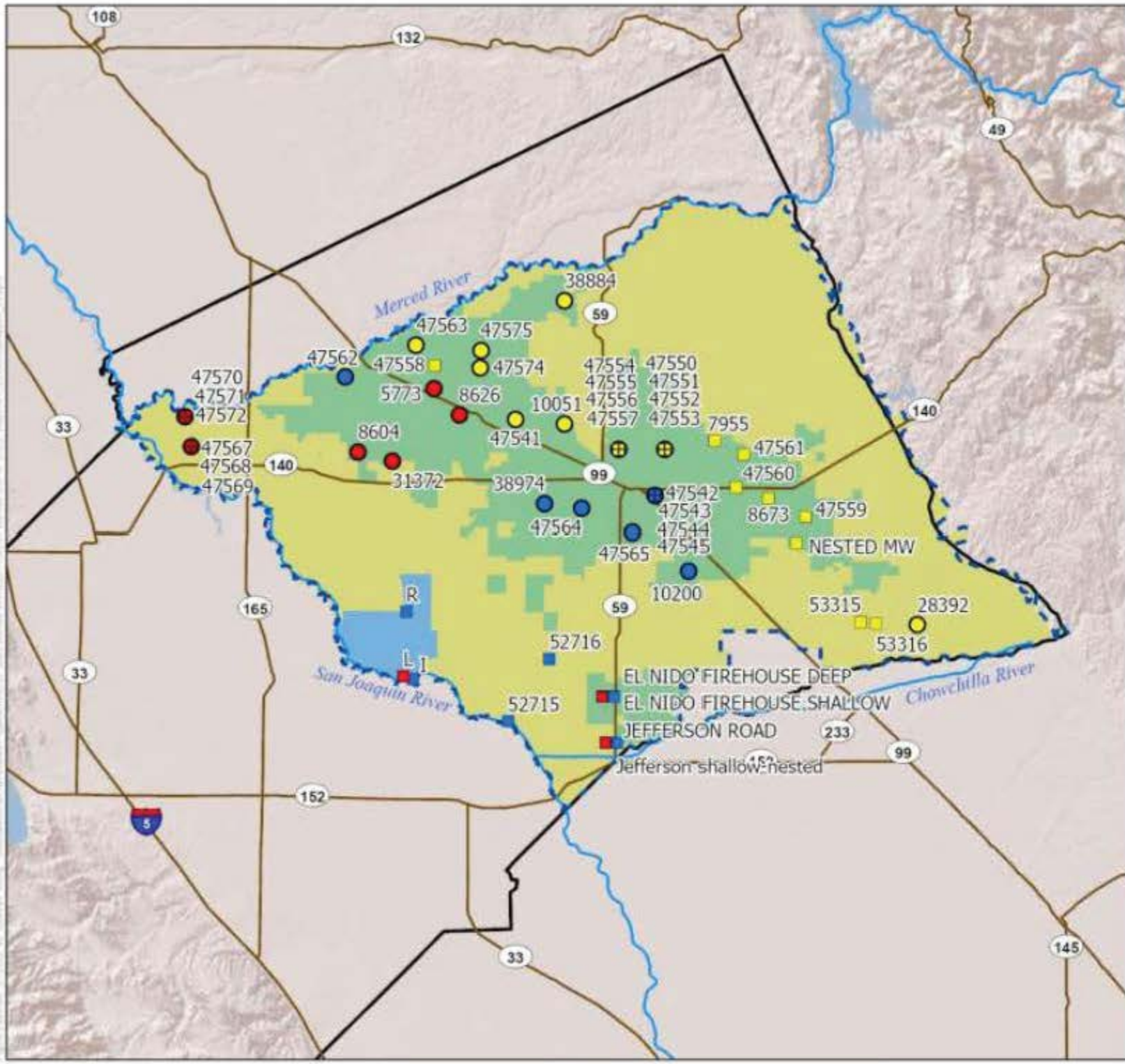
Additional Monitoring Network Well*

- Above Corcoran Clay
- Below Corcoran Clay
- Outside Corcoran Clay

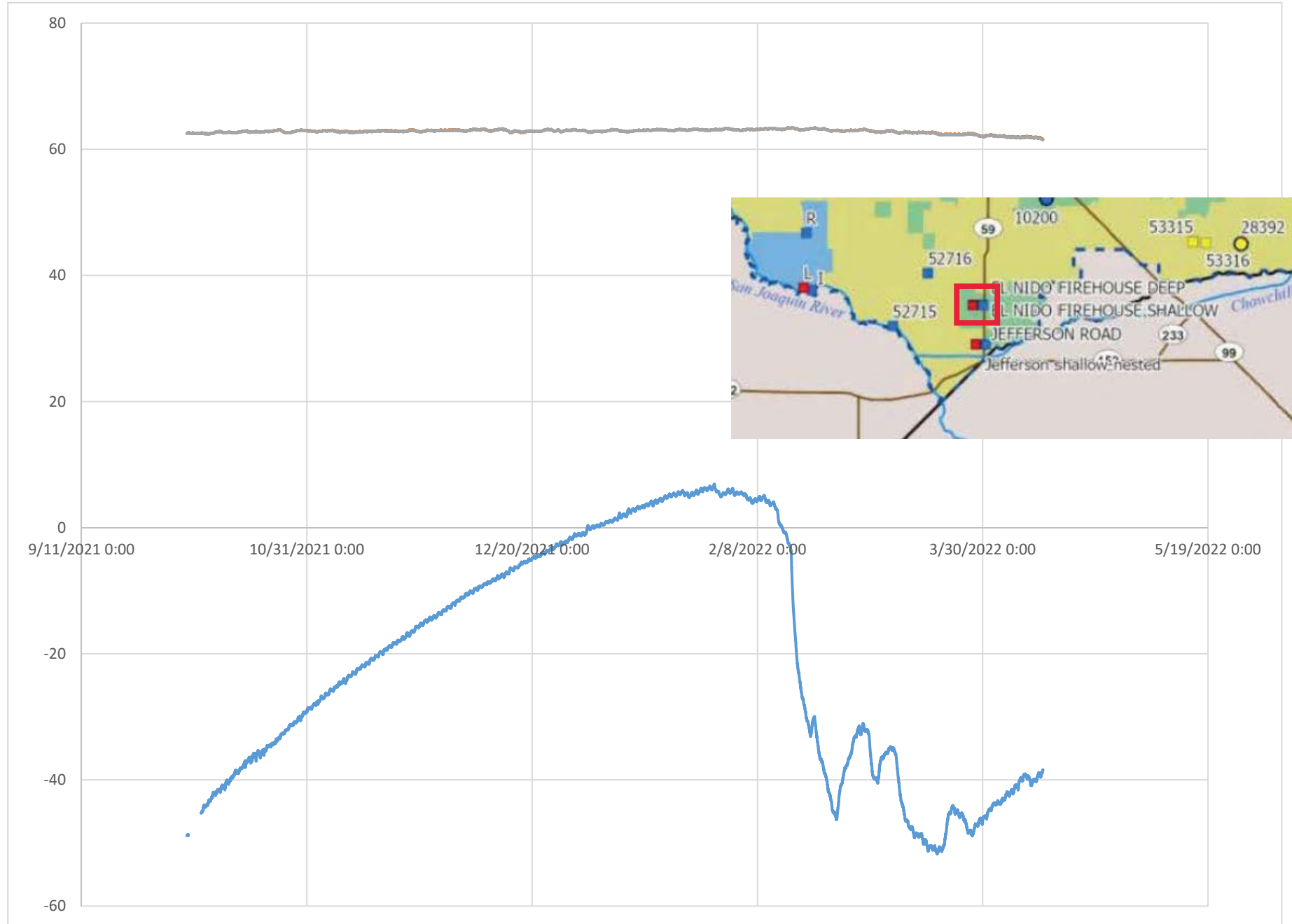
*Wells in SGMA Portal labeled with numeric station ID. Other new wells will be added to the SGMA portal.



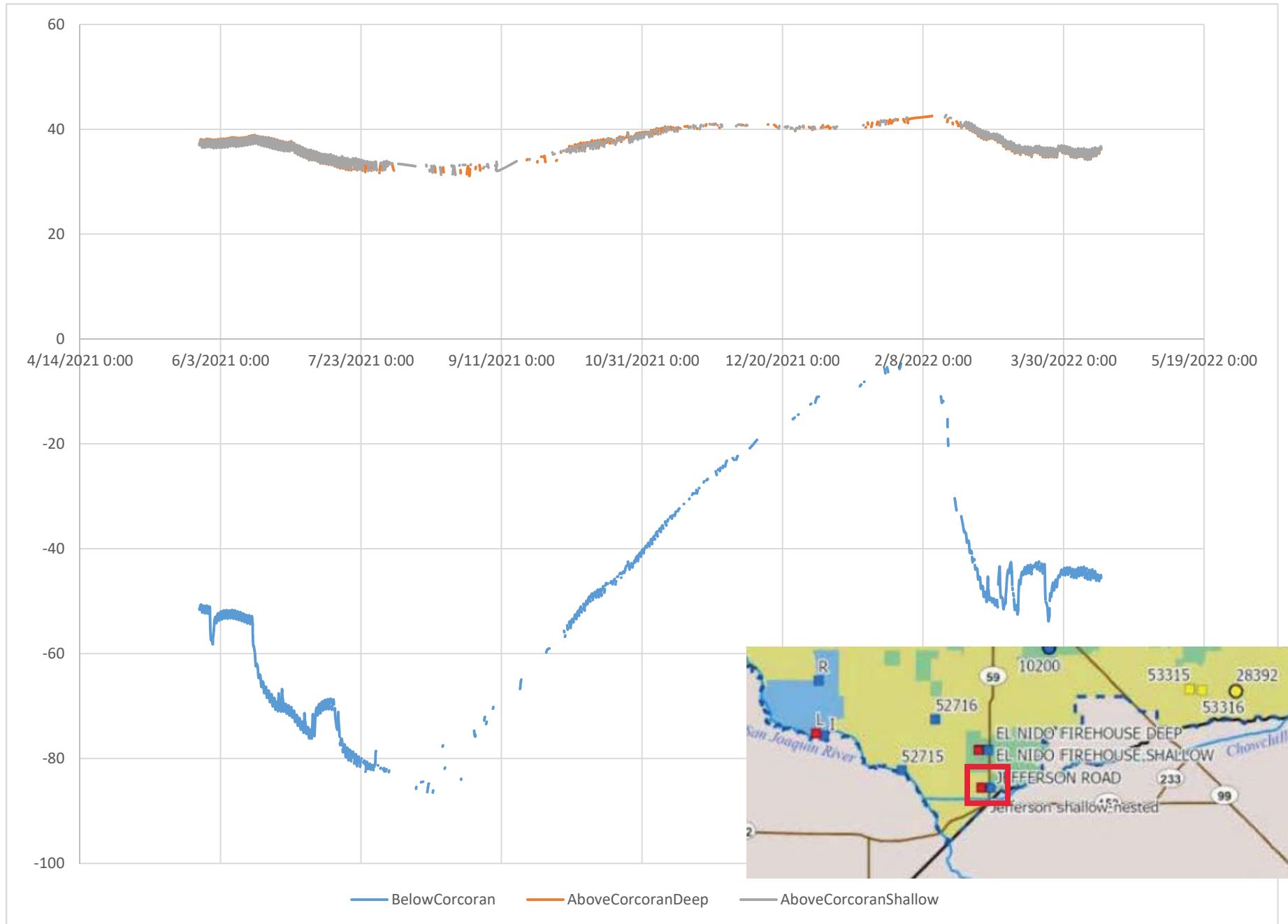
Project # 0011036.01
Map Created: March 2022
Data Sources: DWR groundwater subbasins, SGMA Portal well locations



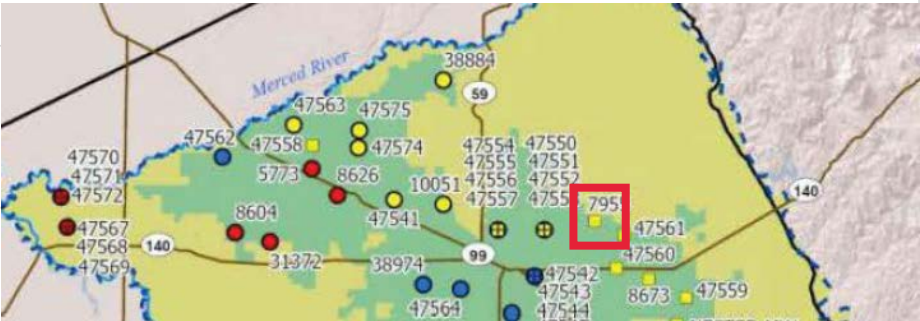
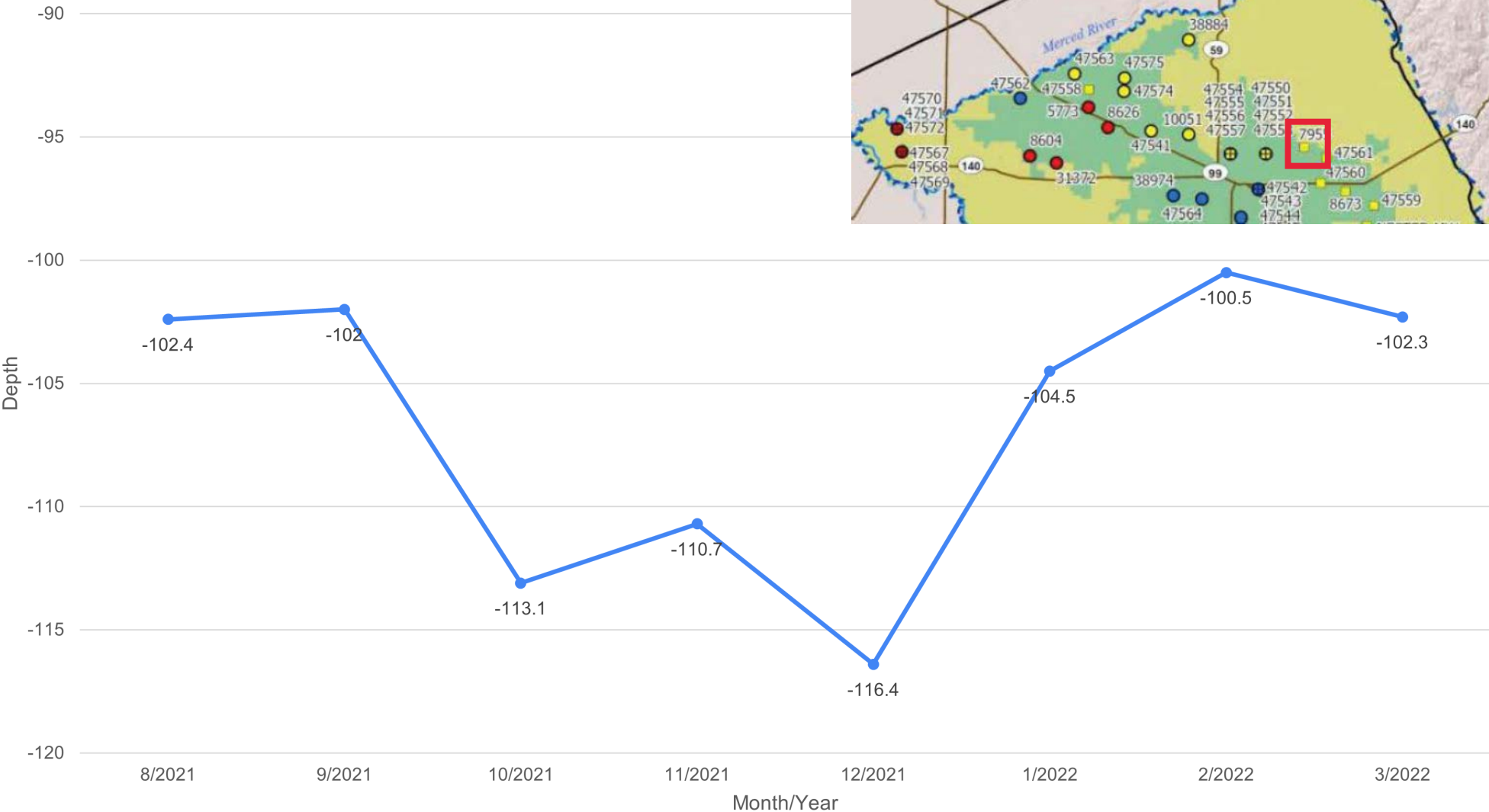
El Nido - Fire Station



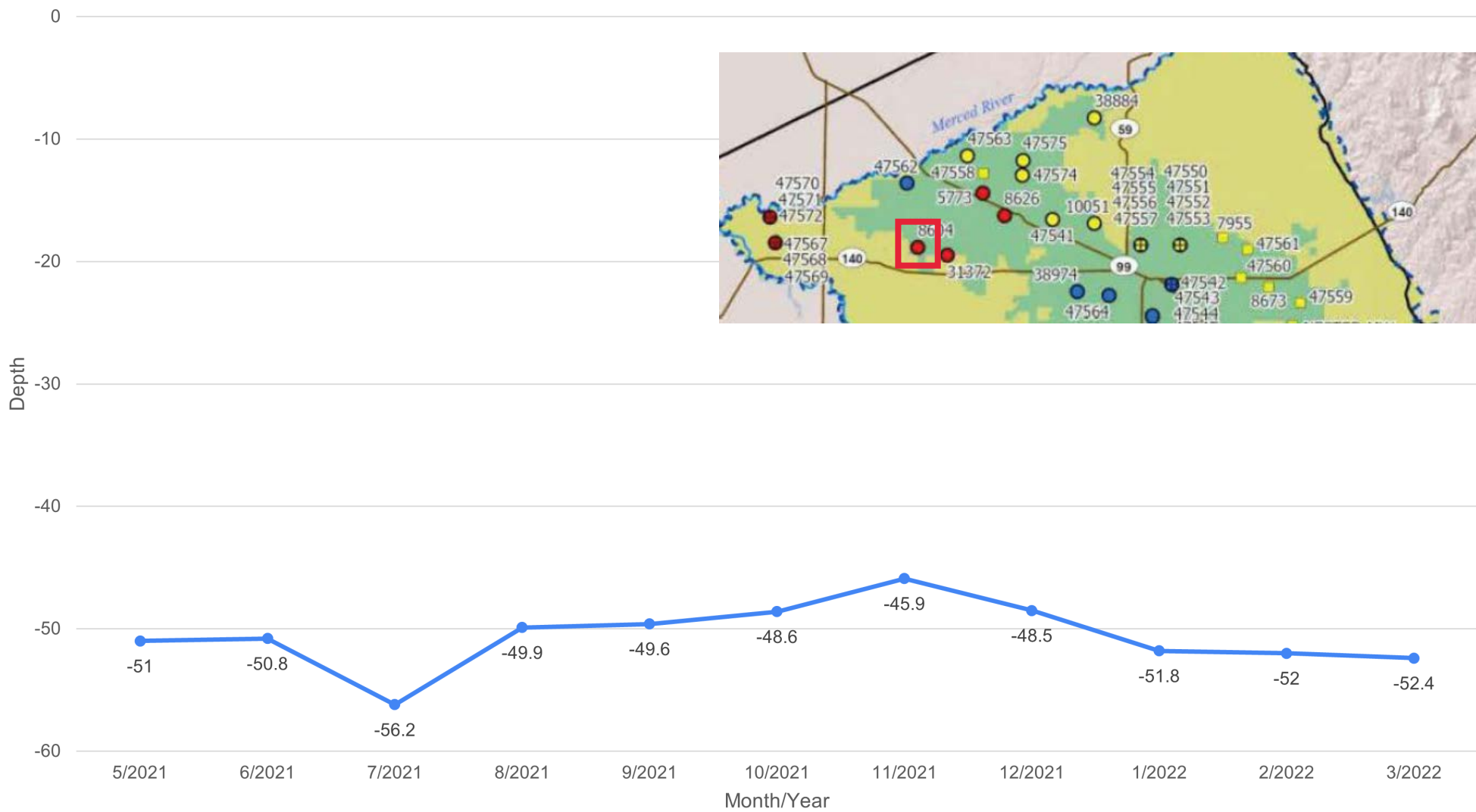
El Nido - Jefferson Road



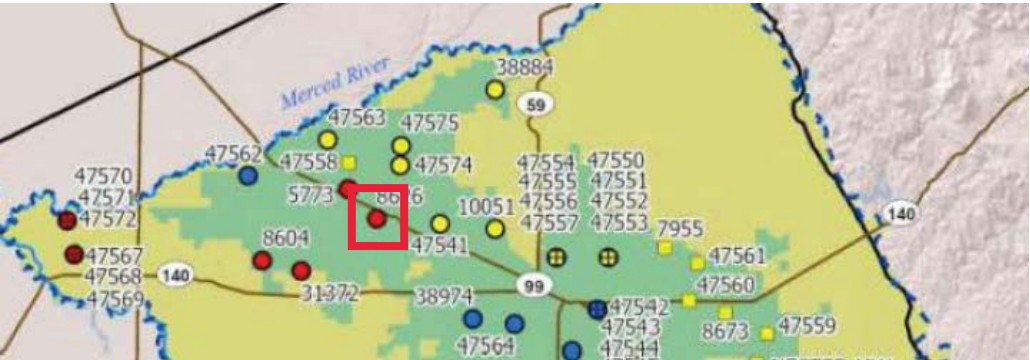
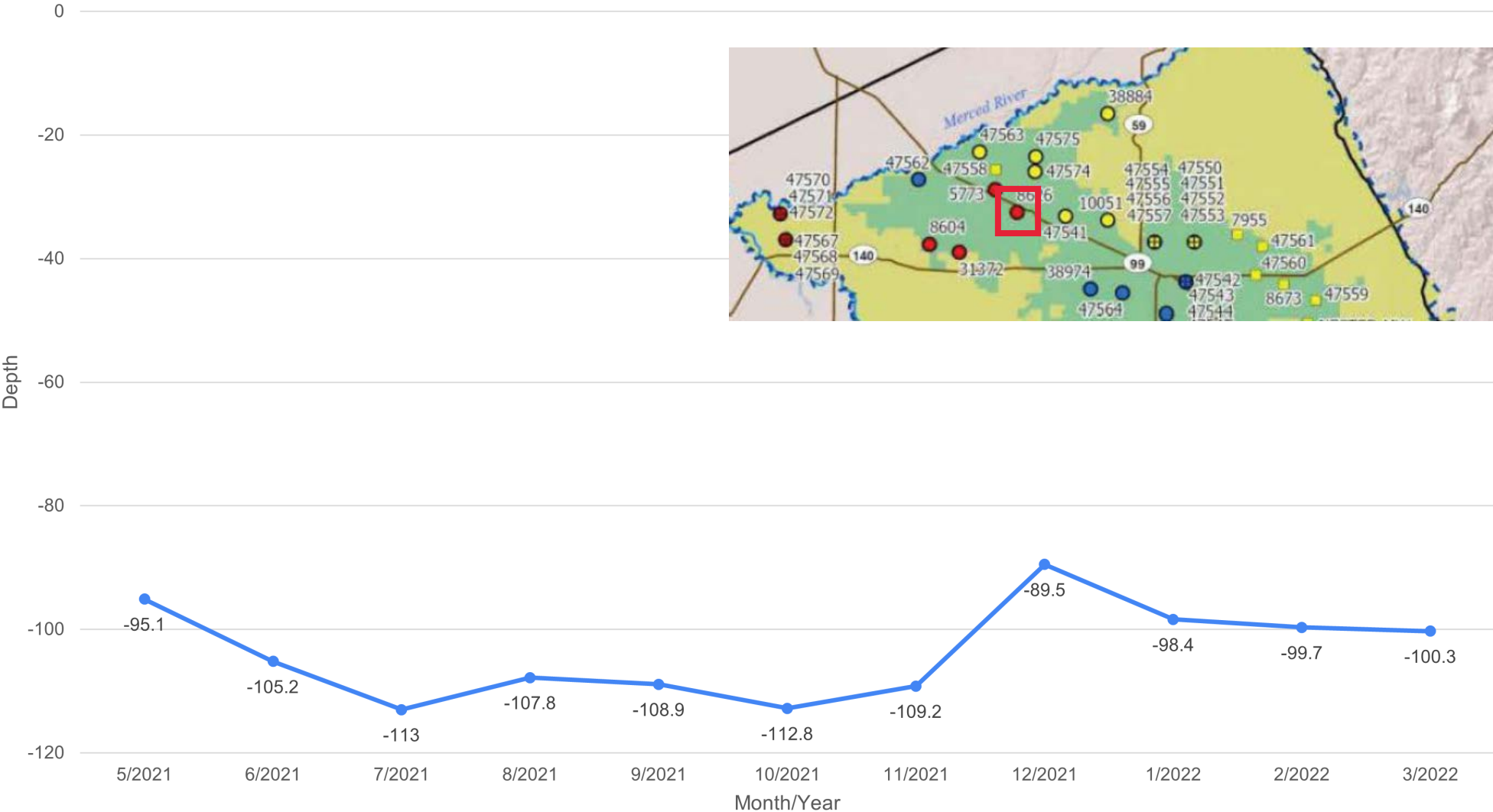
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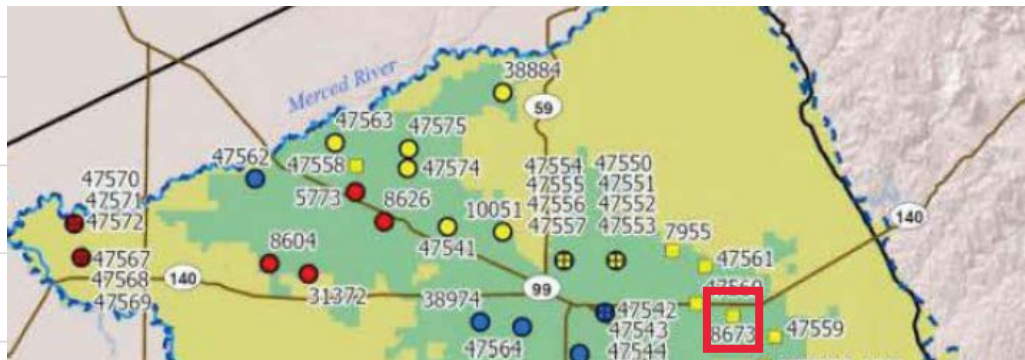
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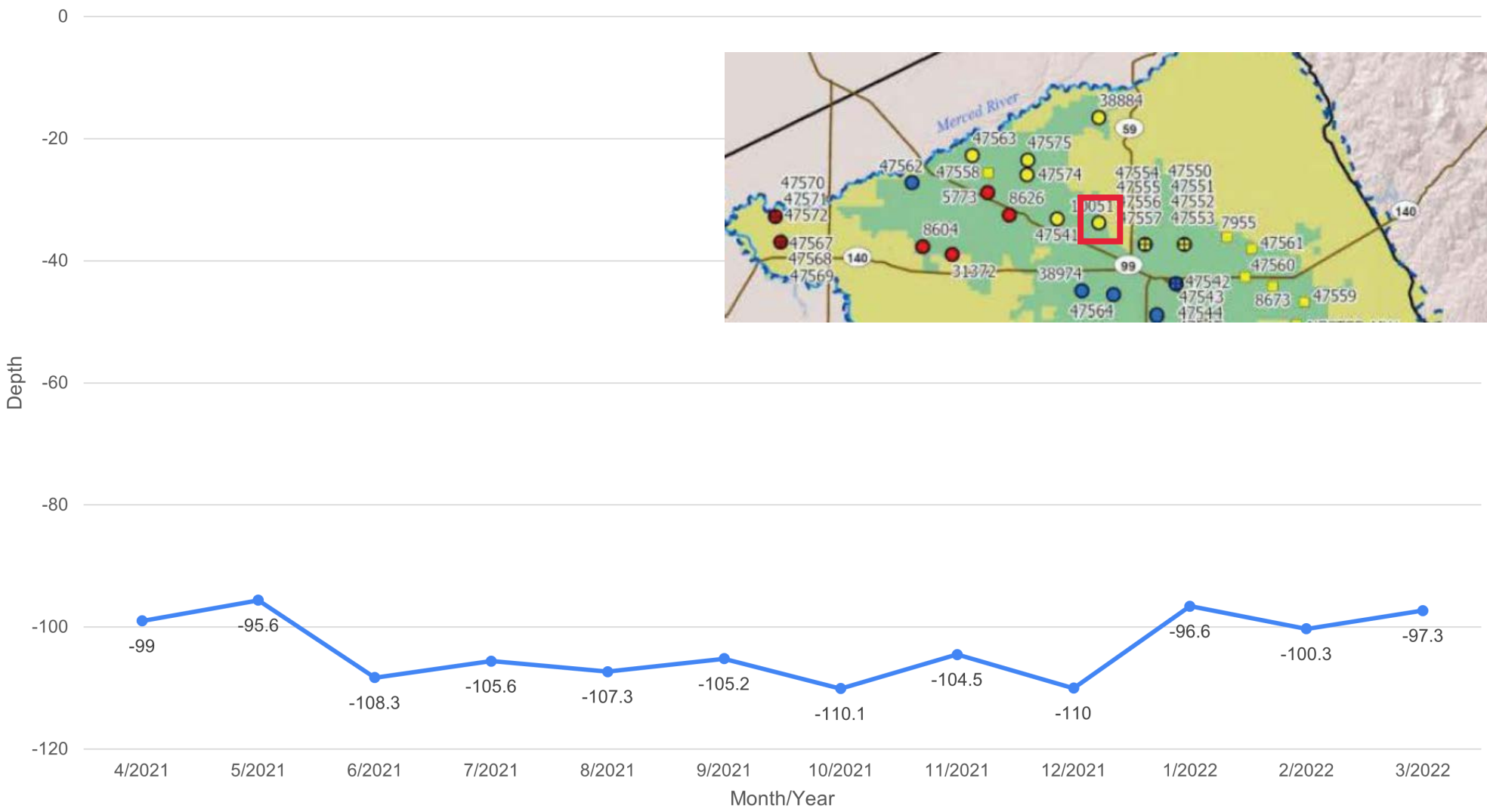
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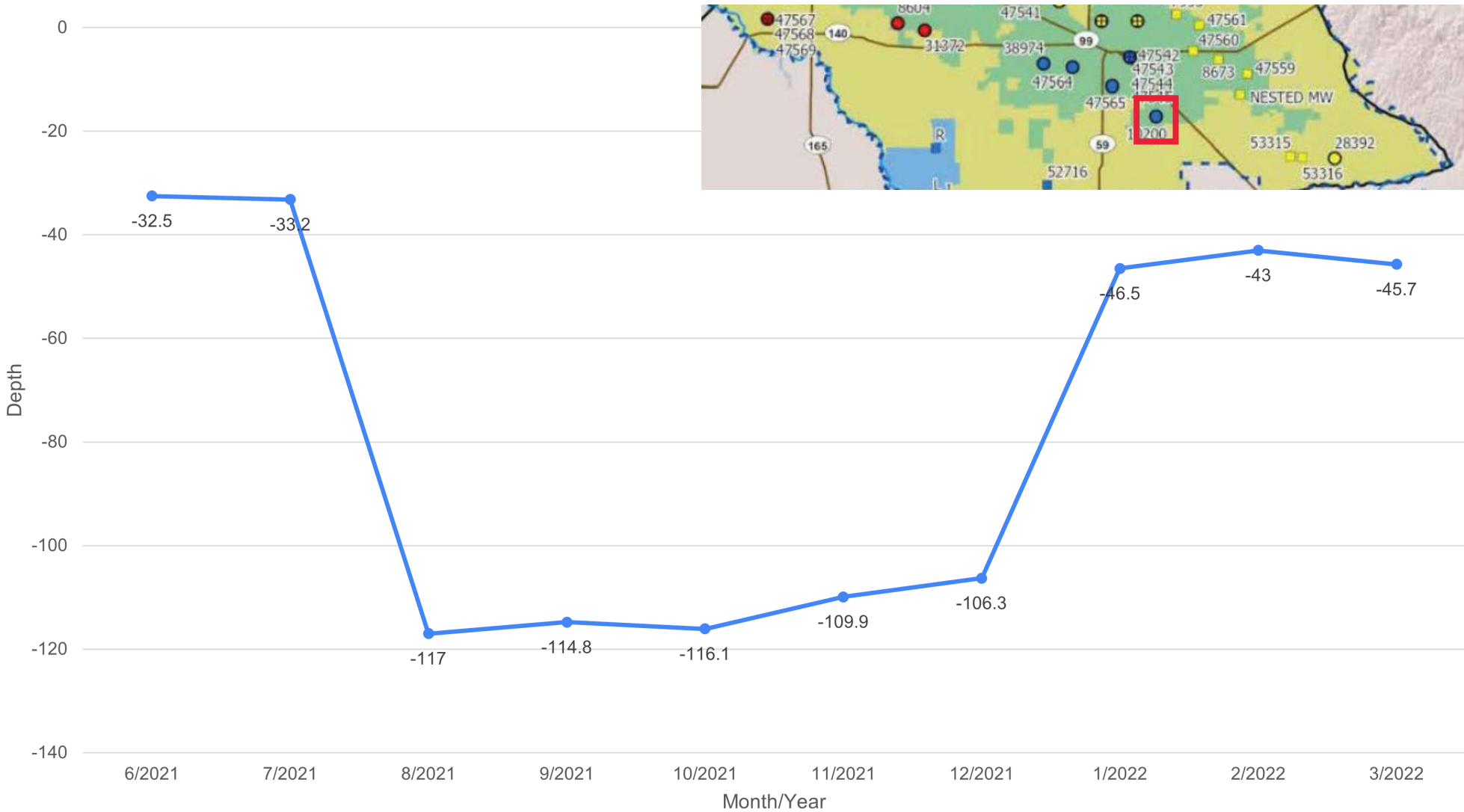
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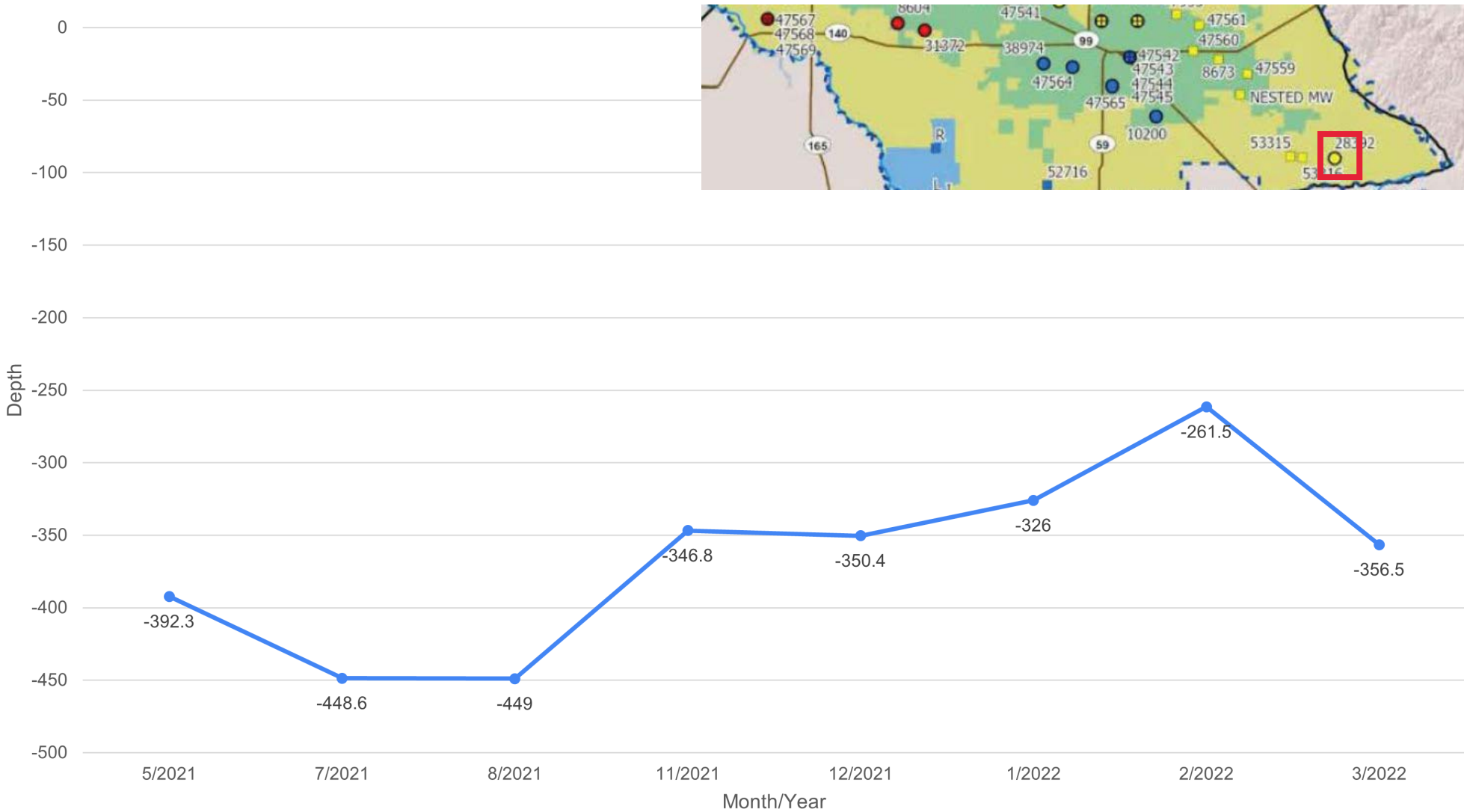
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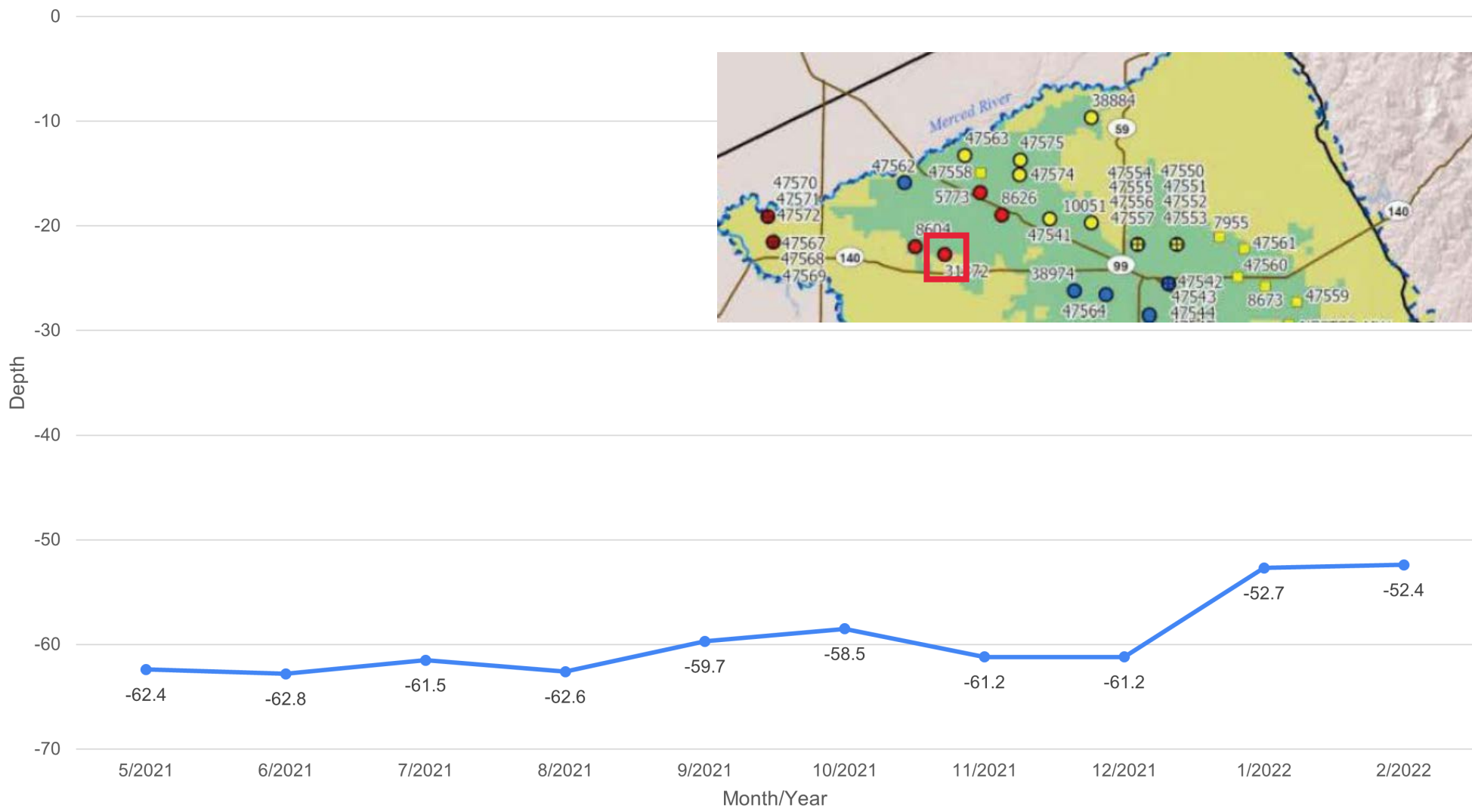
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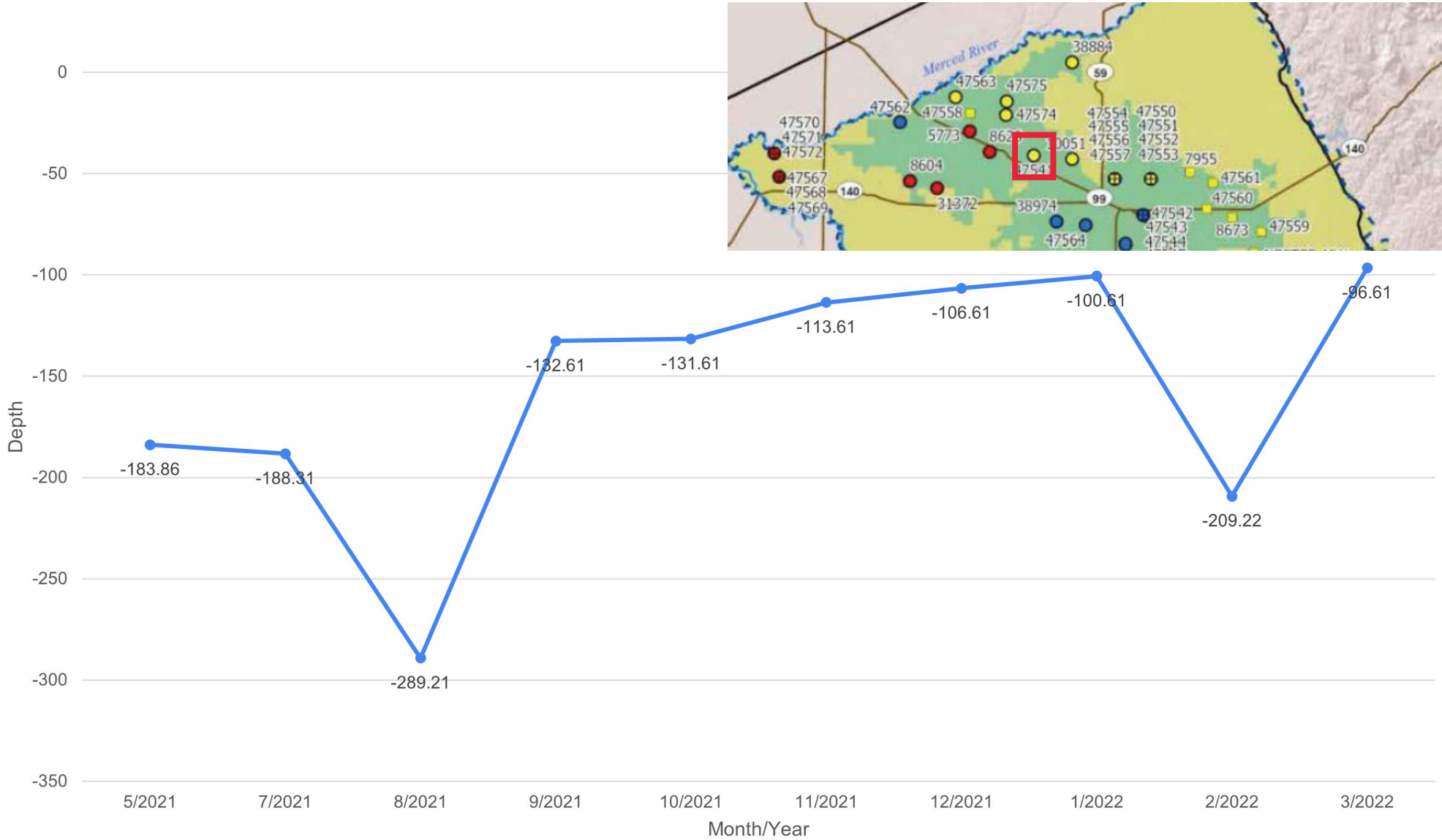
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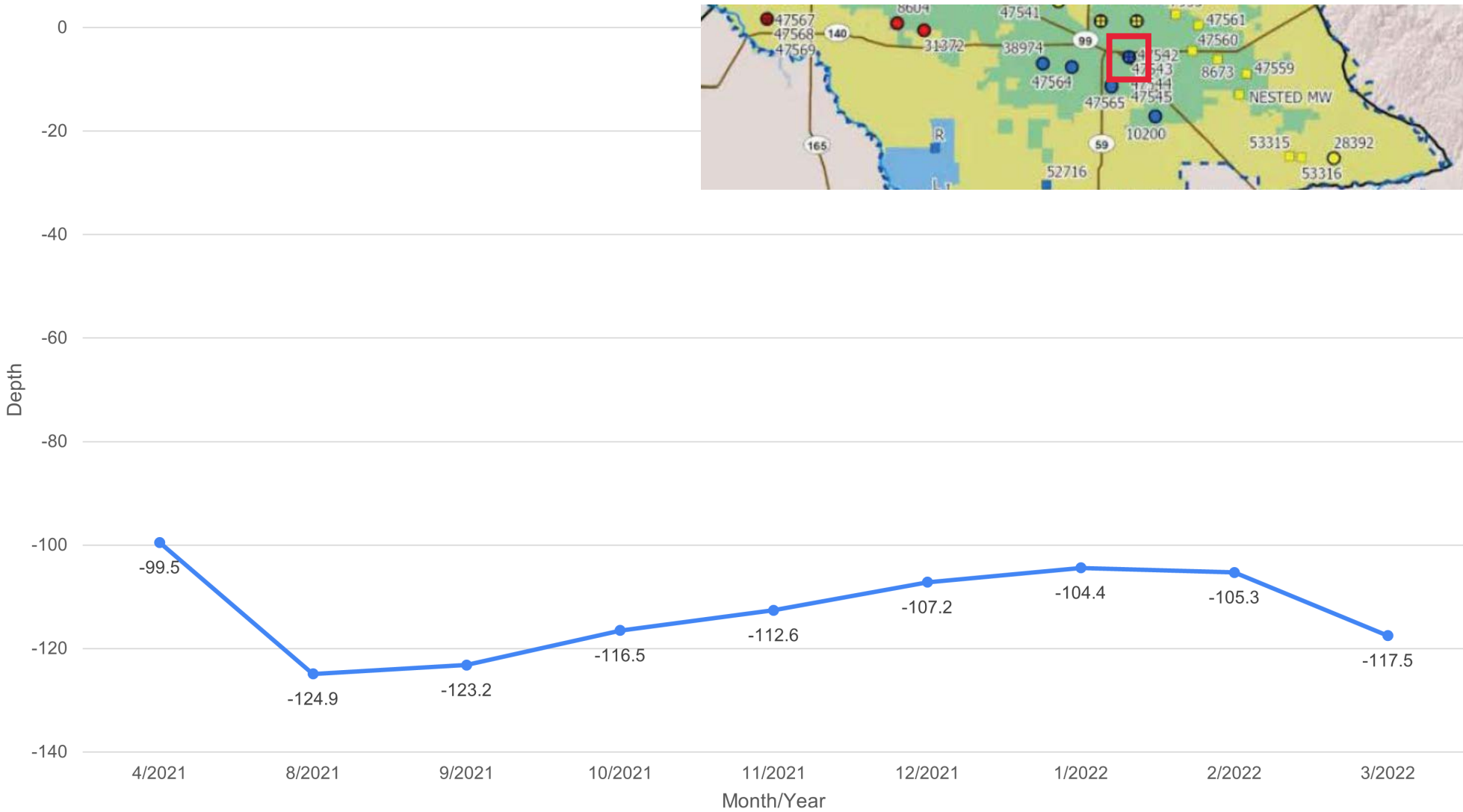
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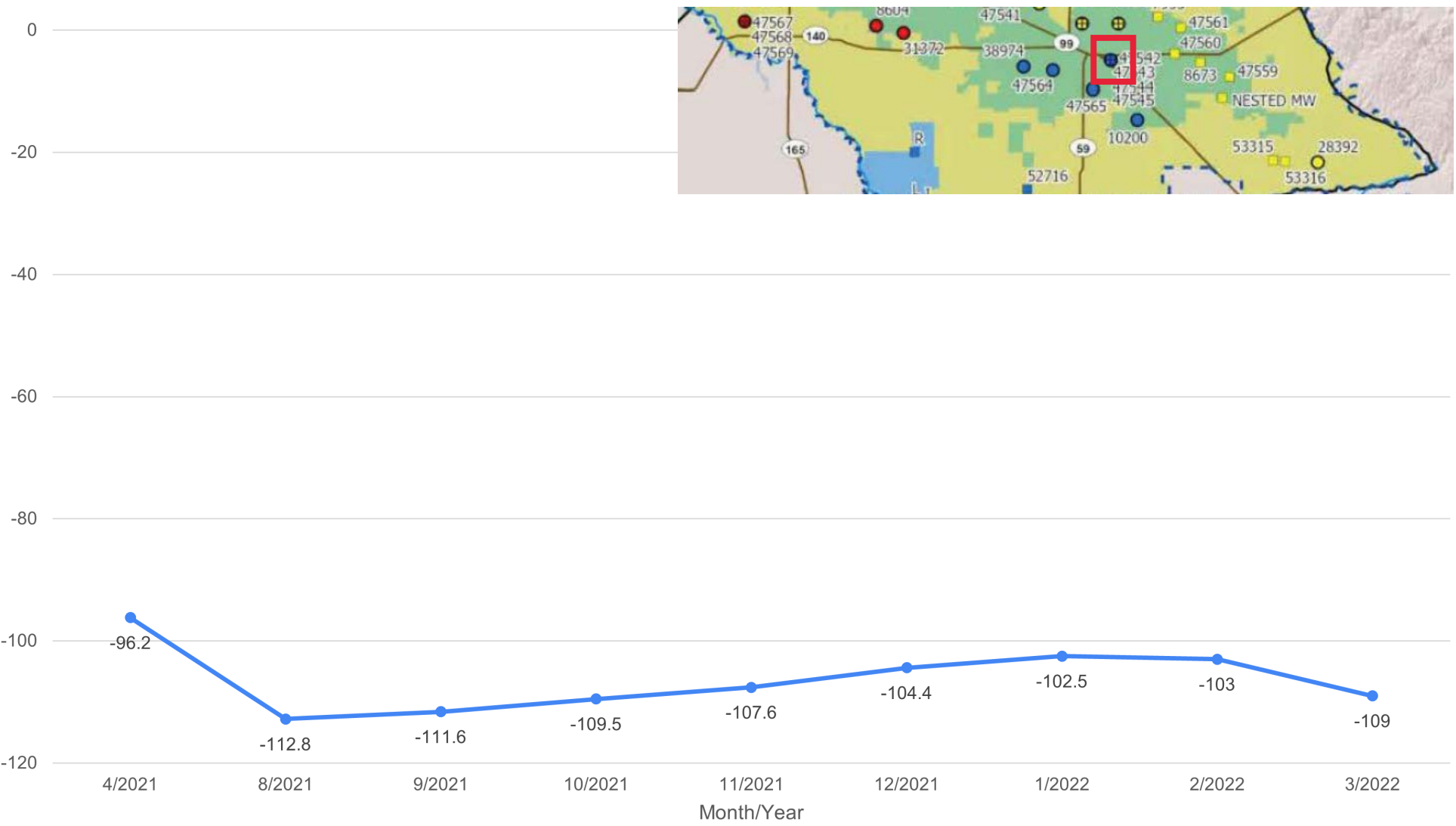
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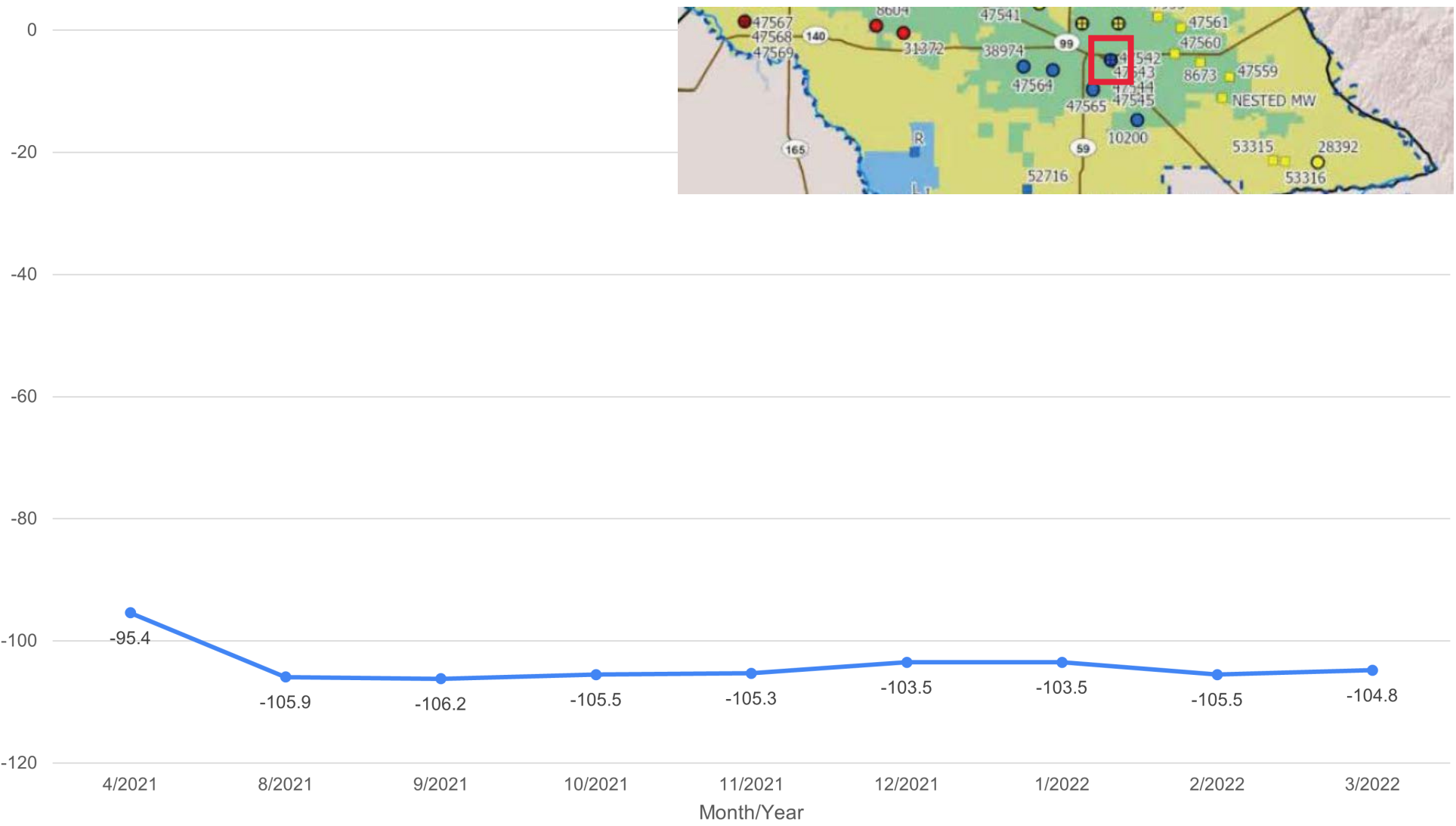
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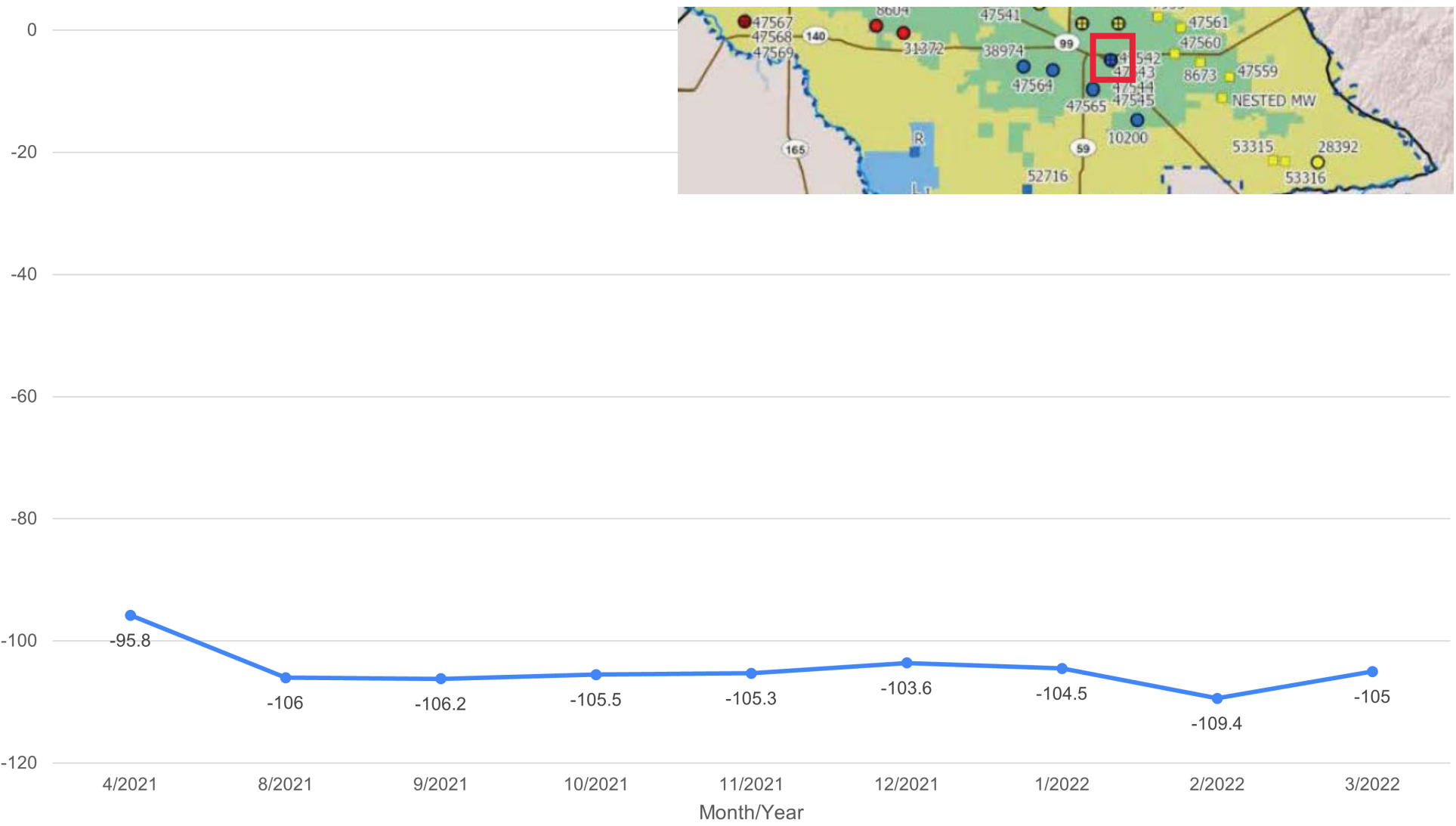
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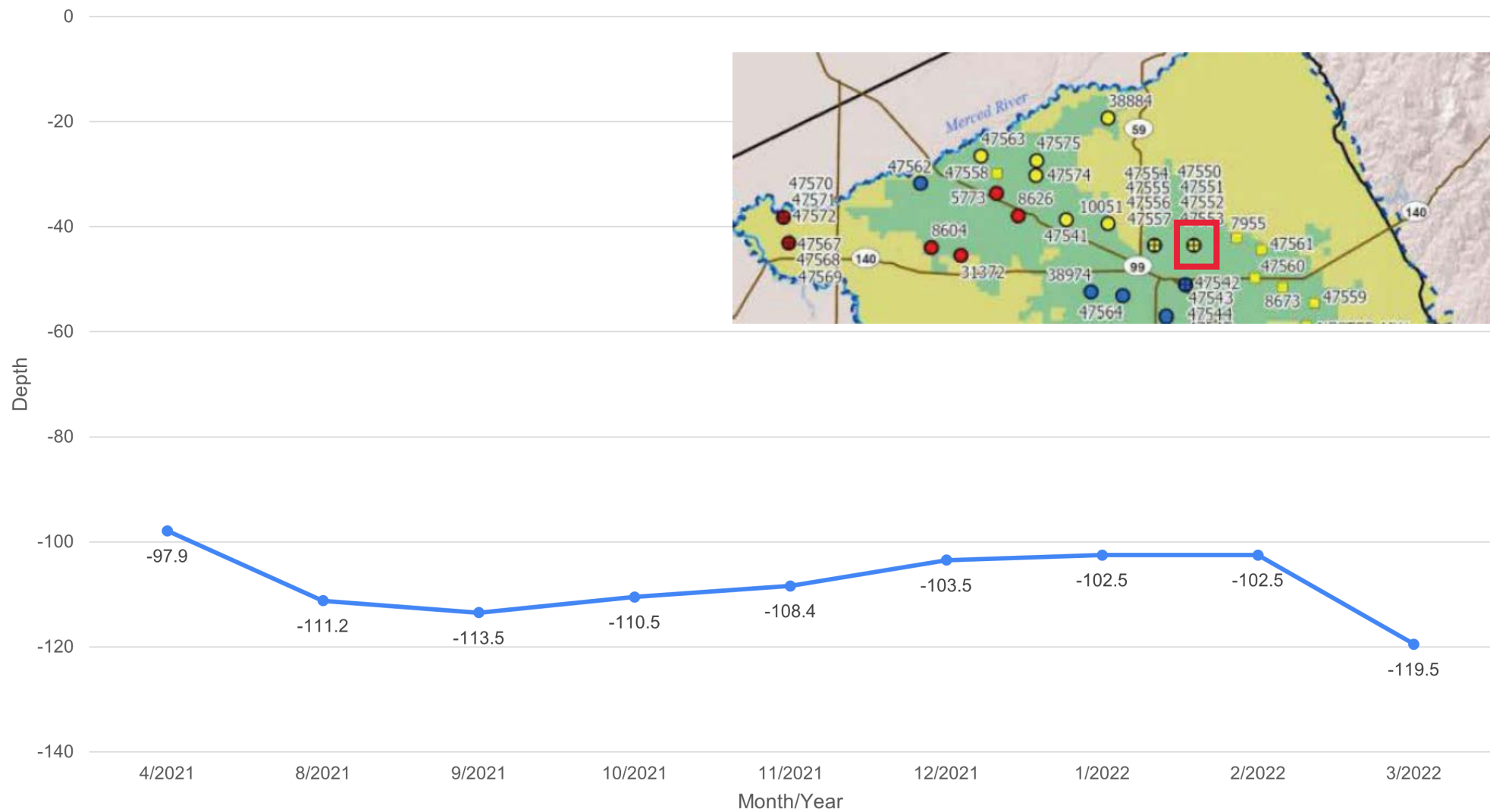
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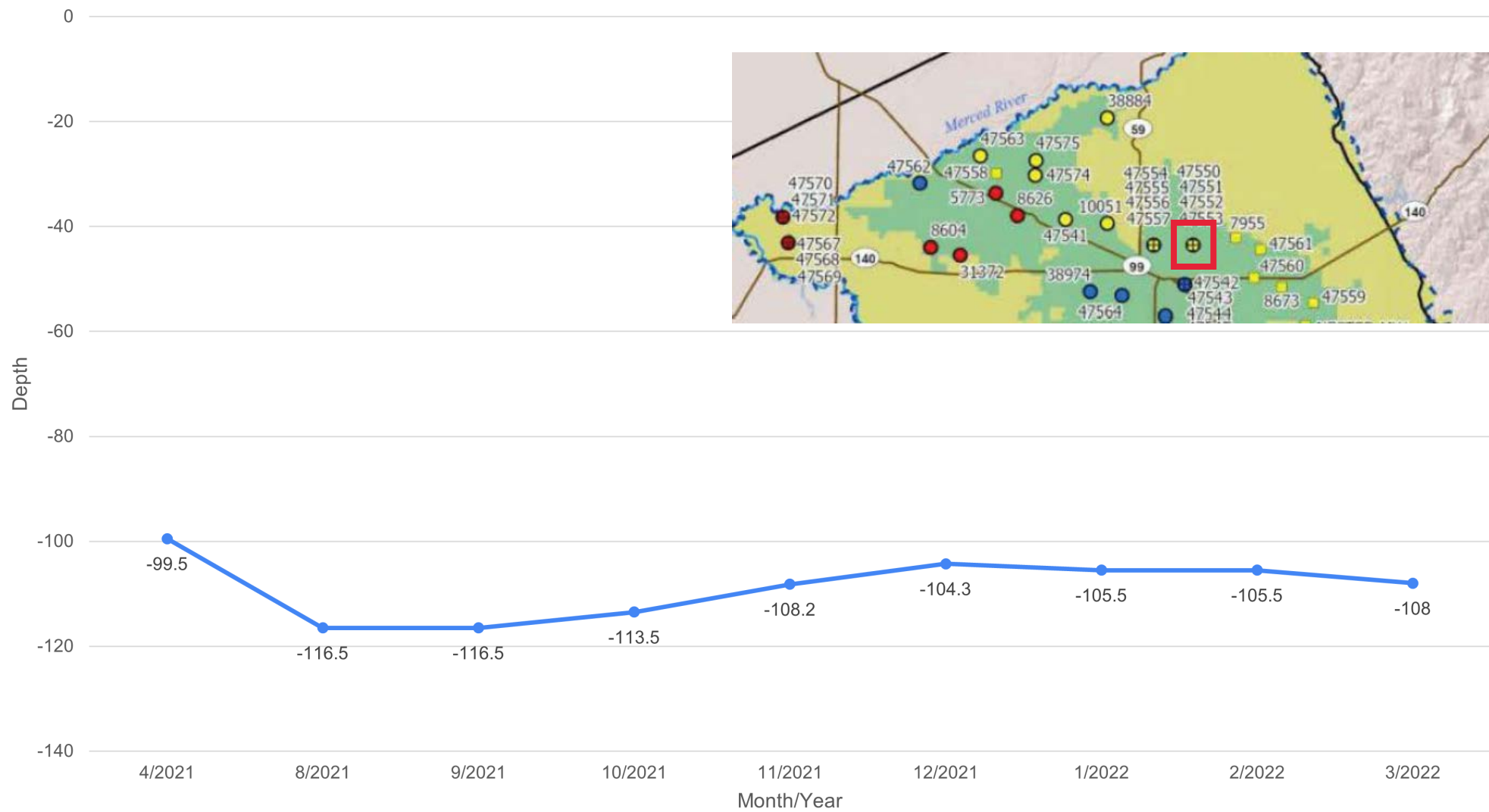
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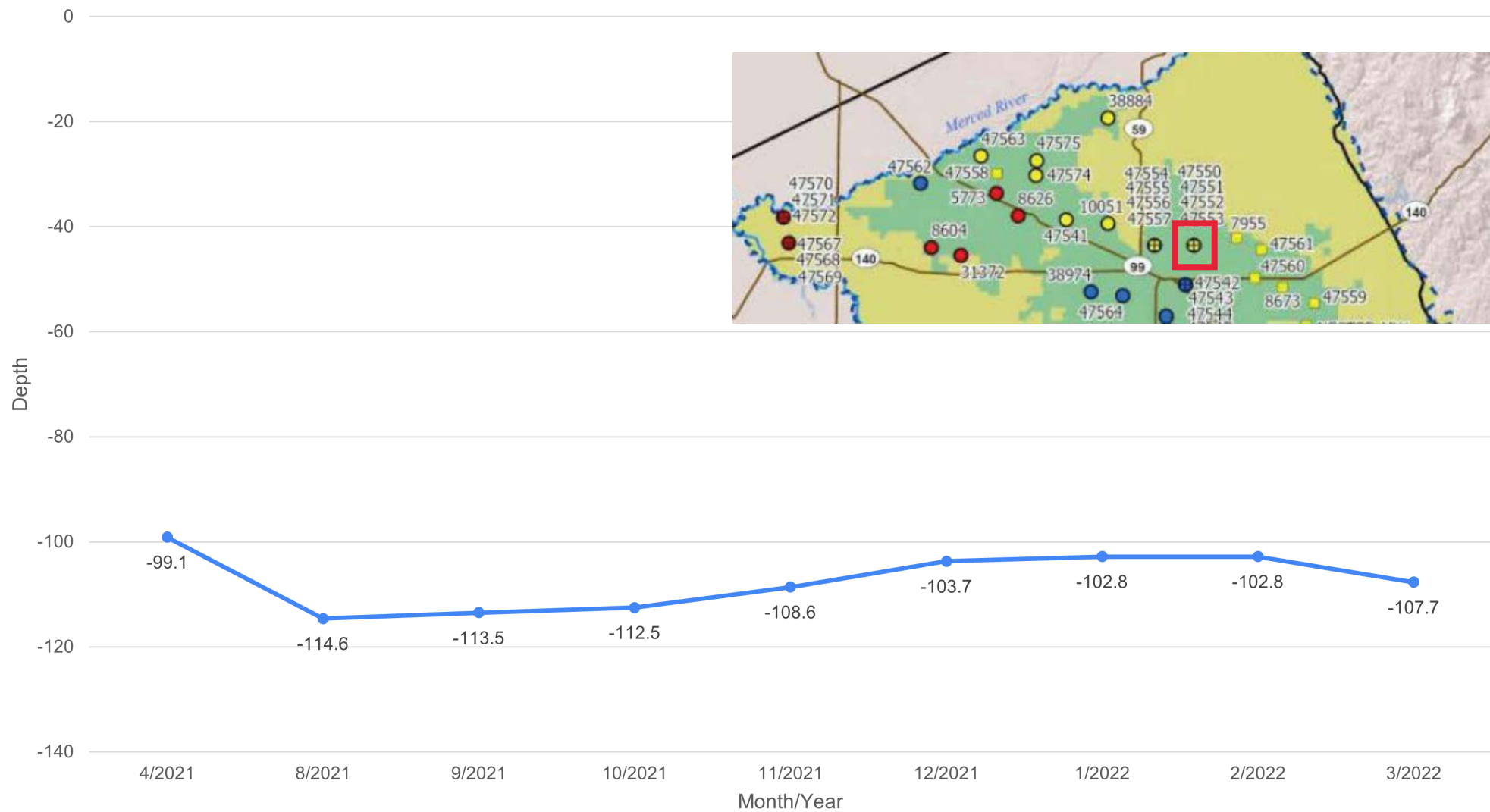
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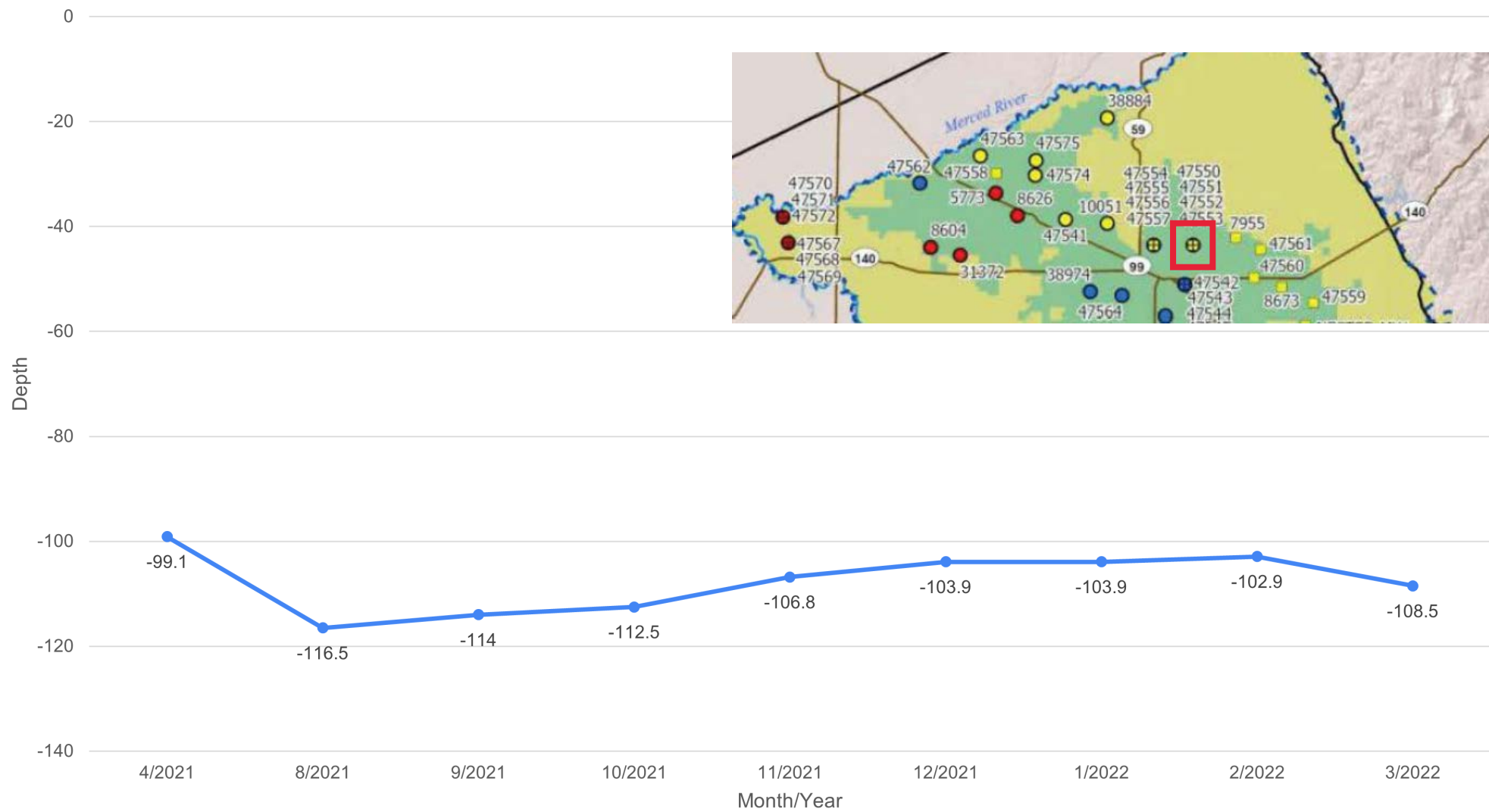
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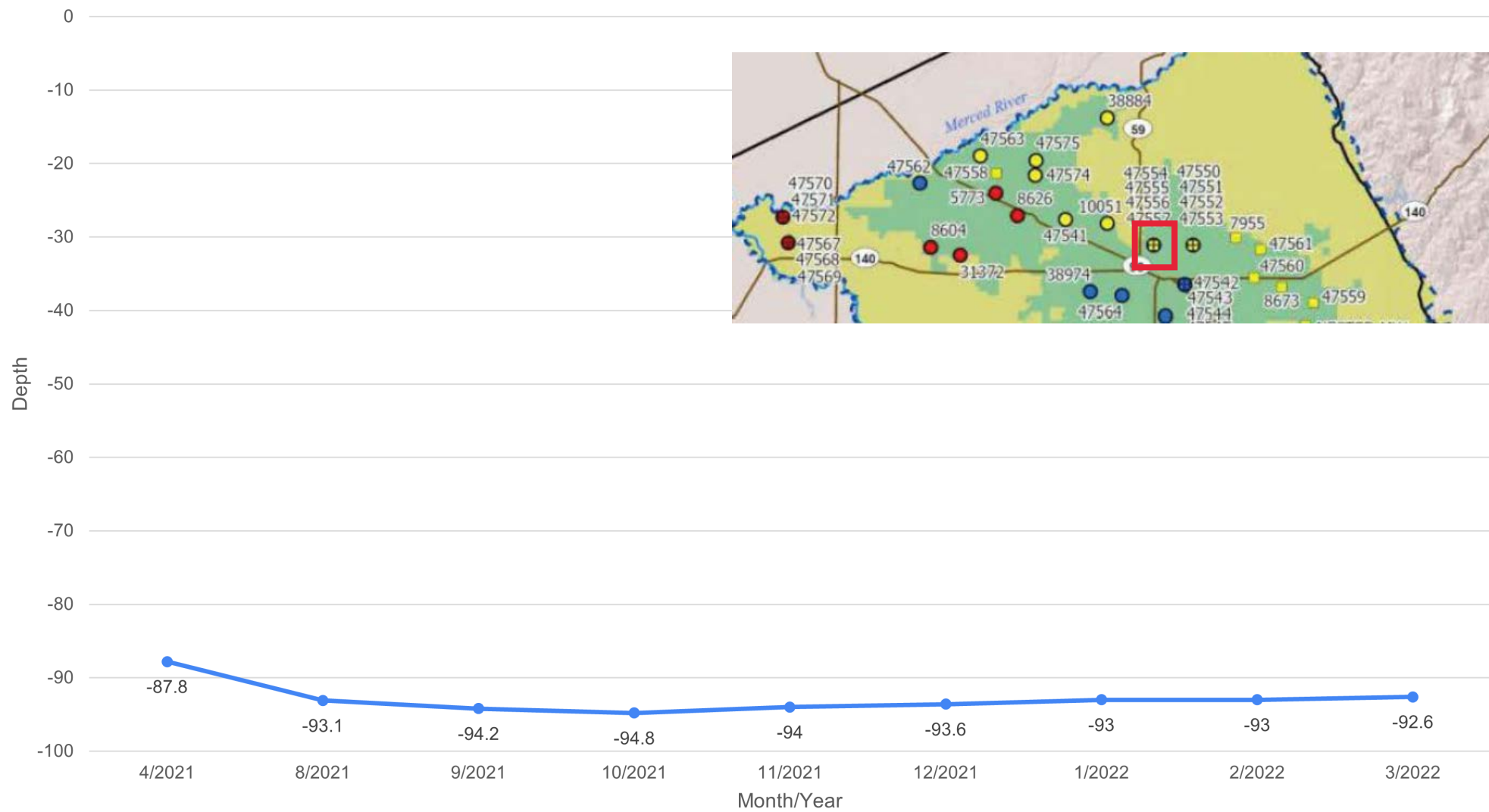
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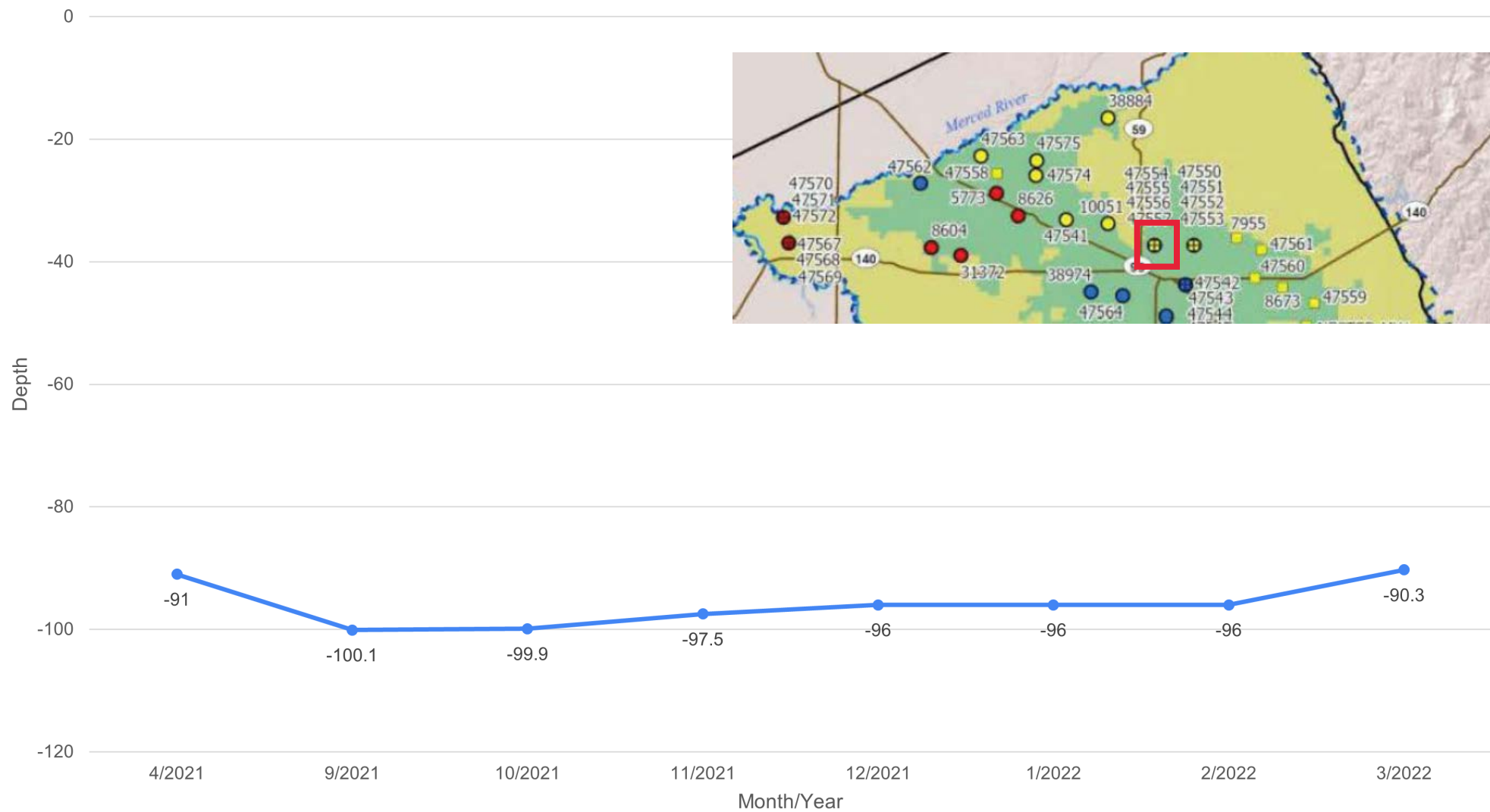
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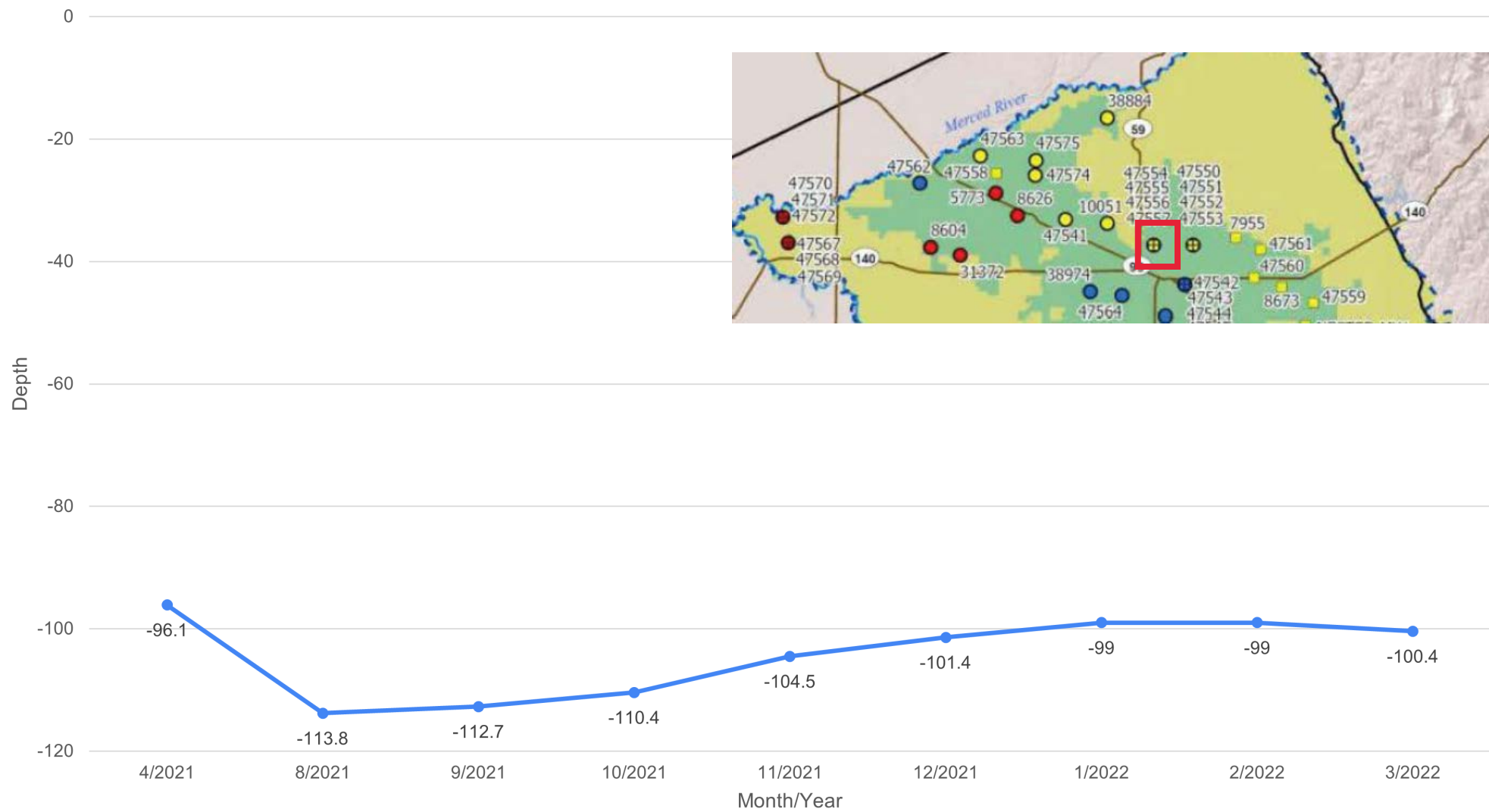
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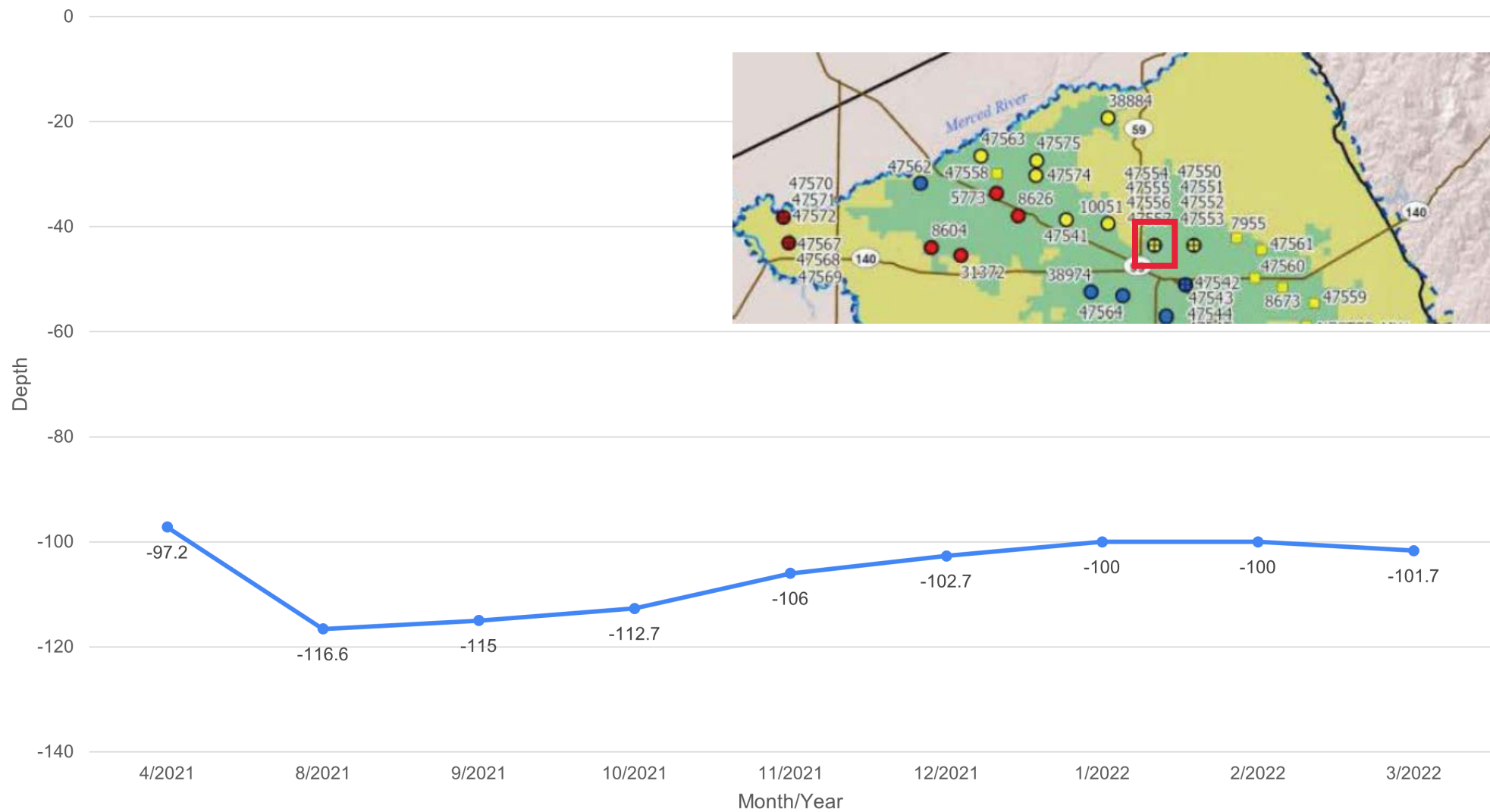
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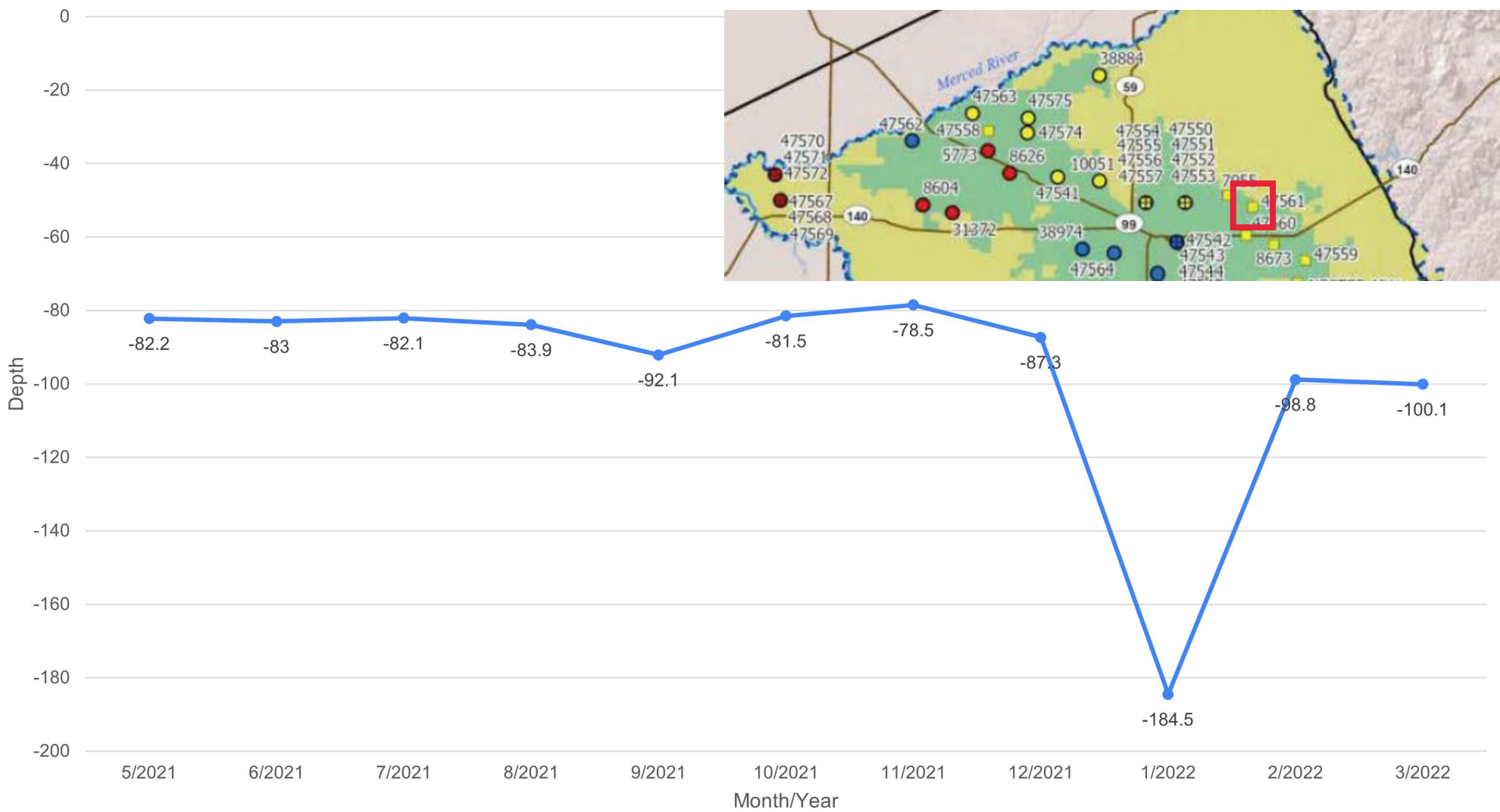
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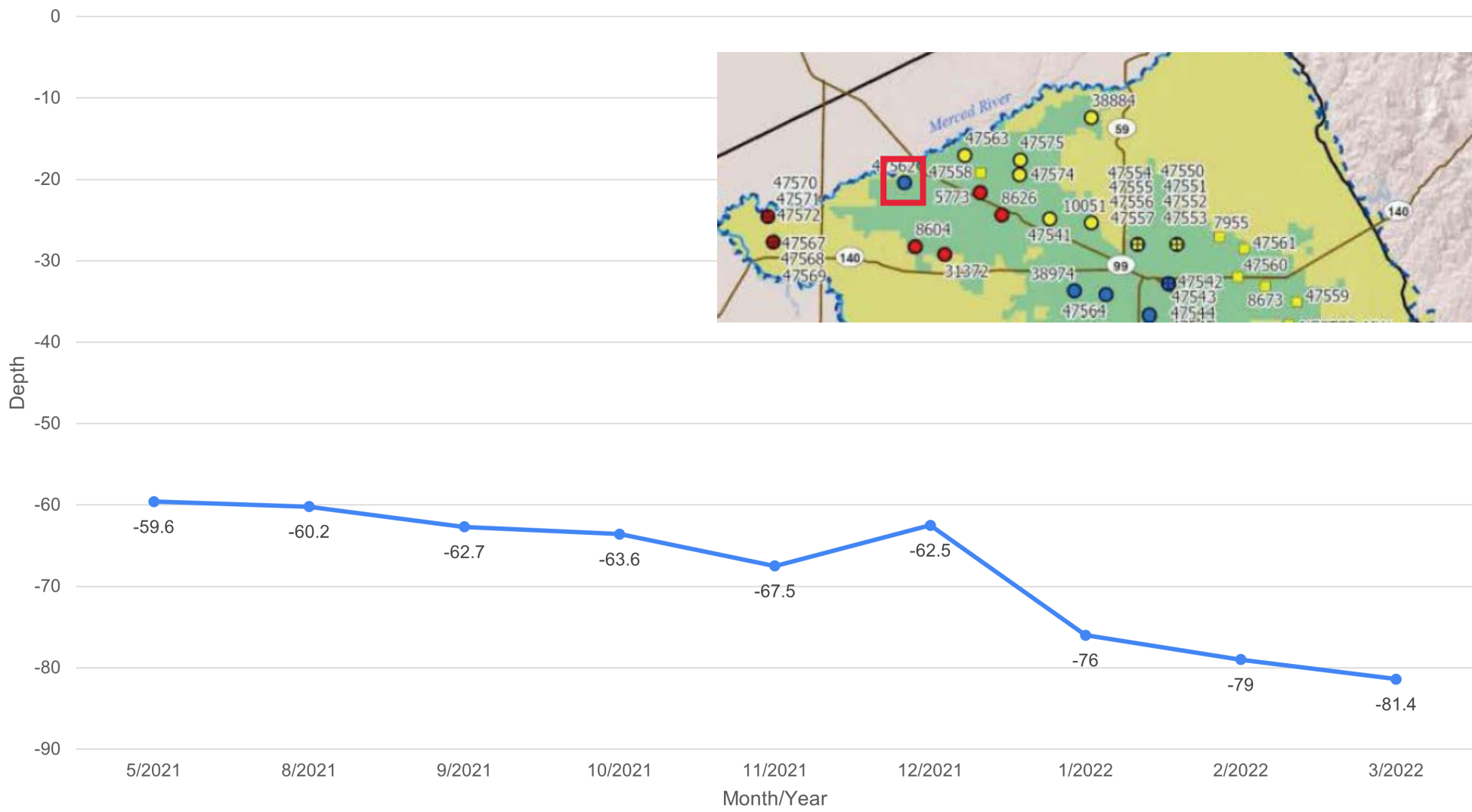
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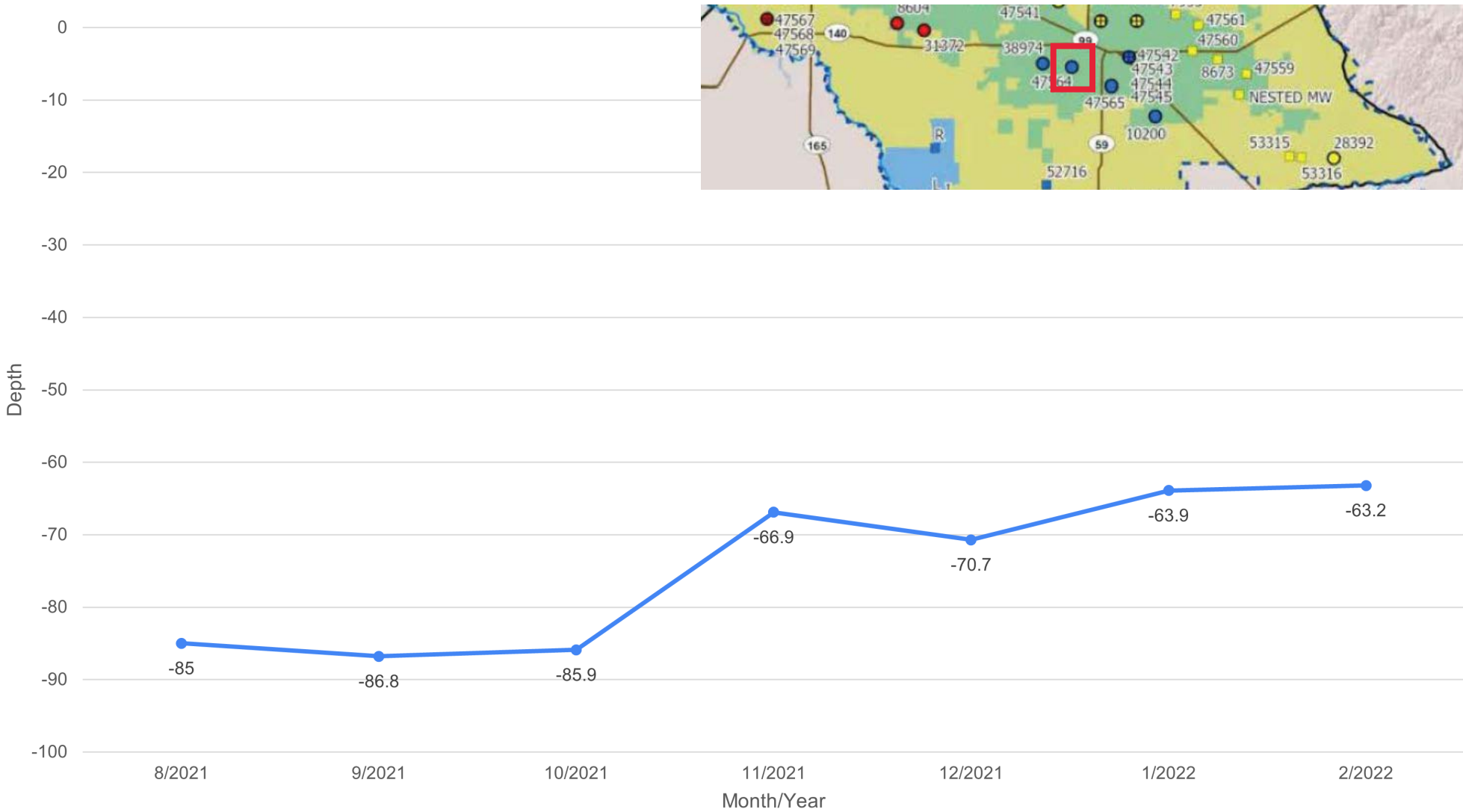
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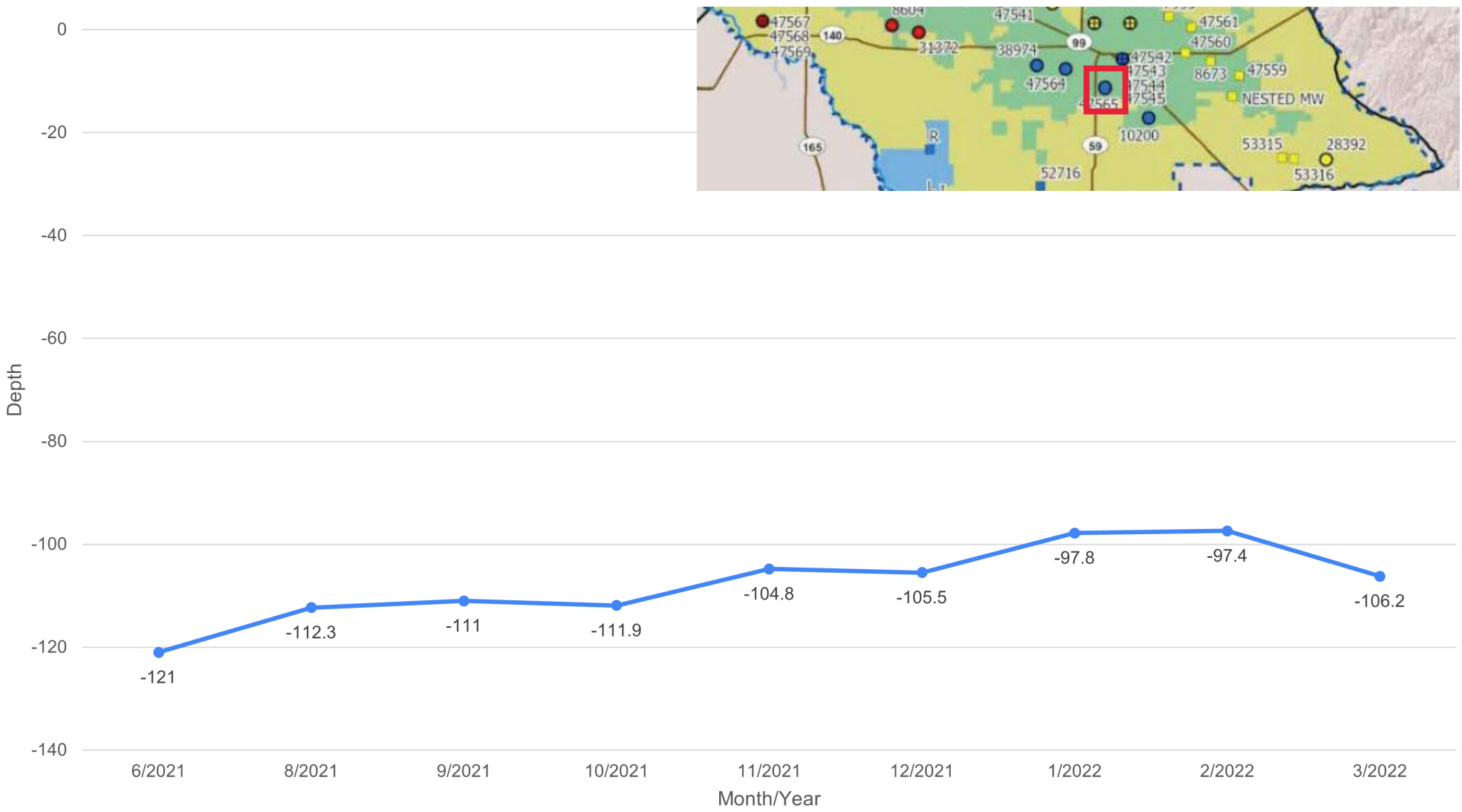
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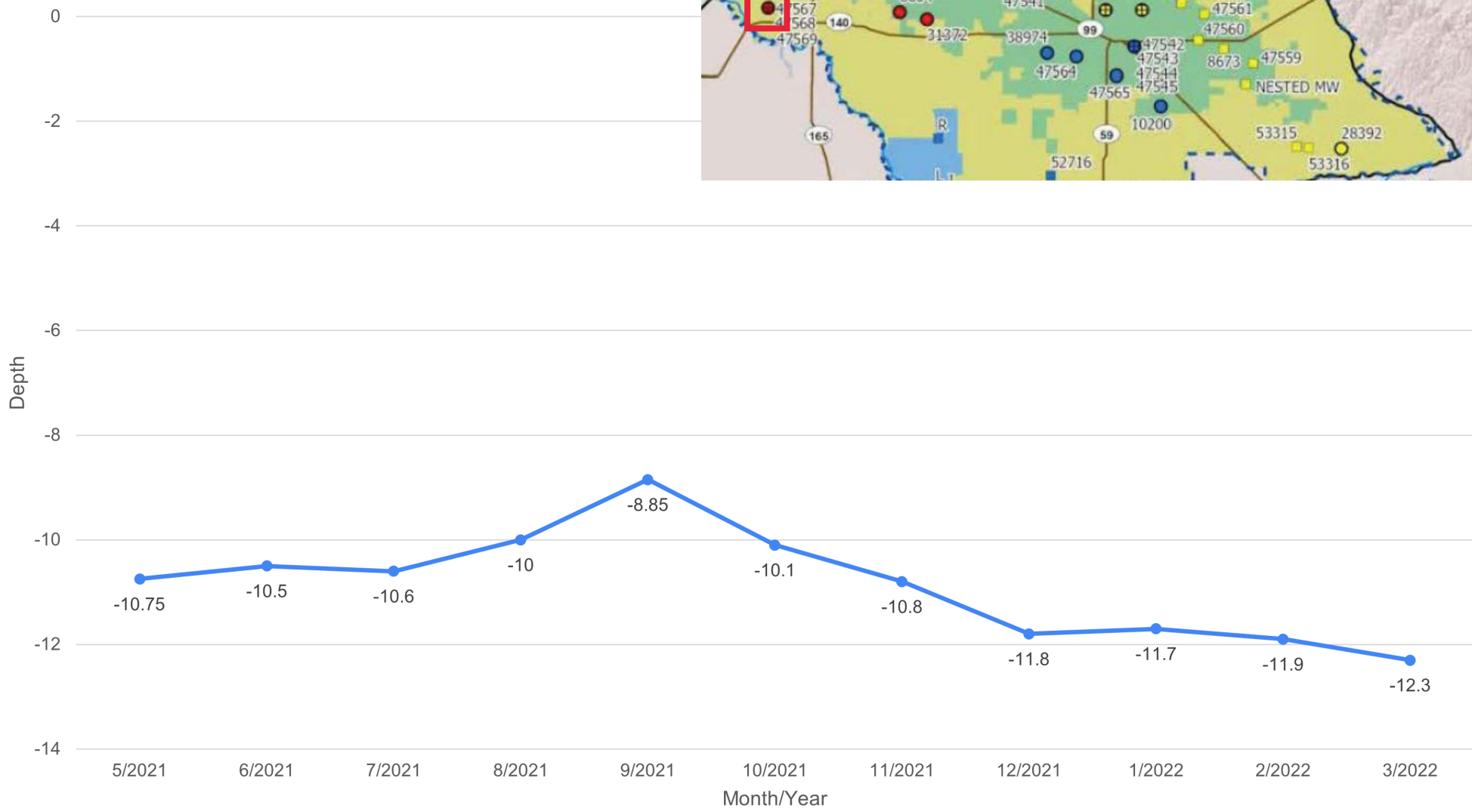
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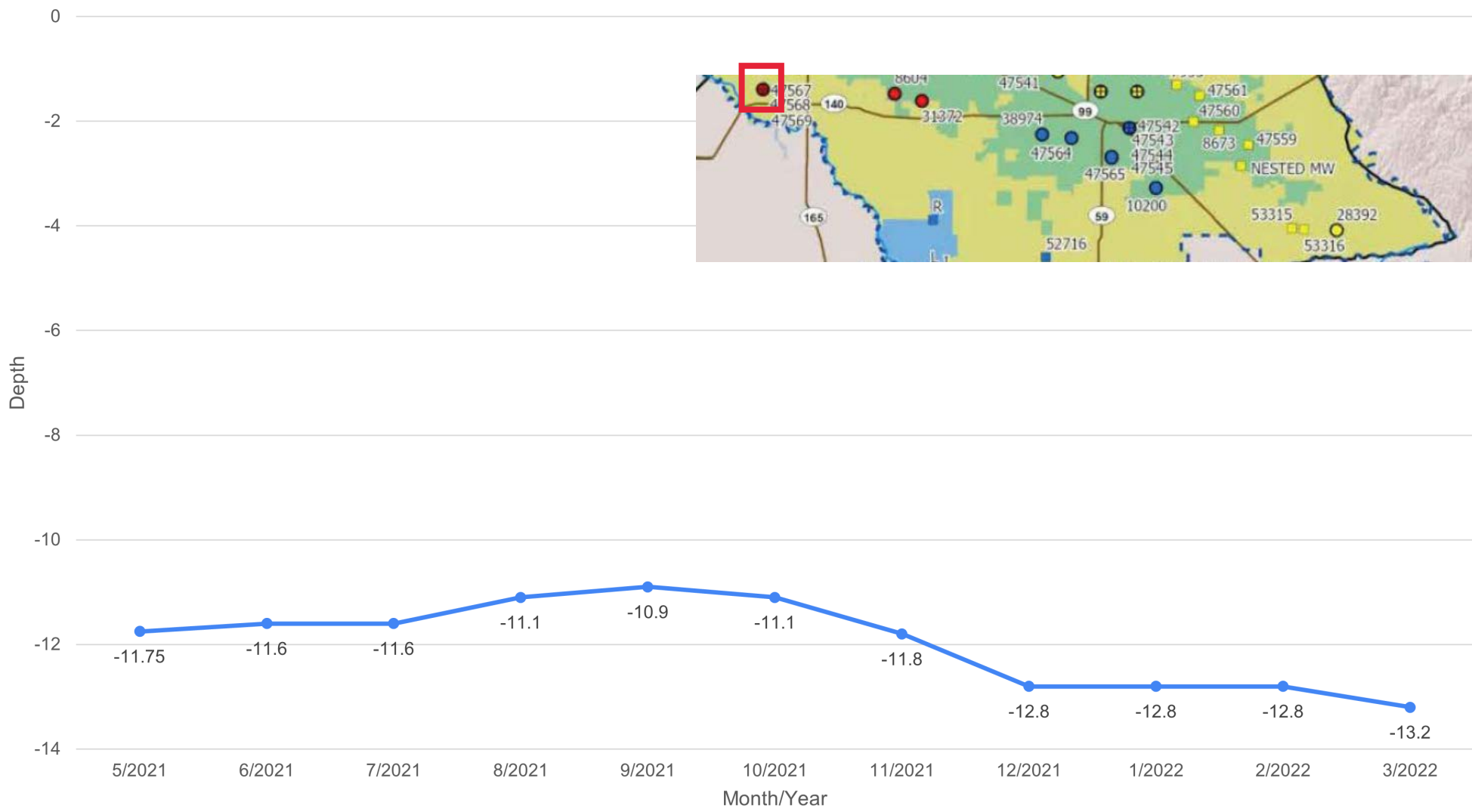
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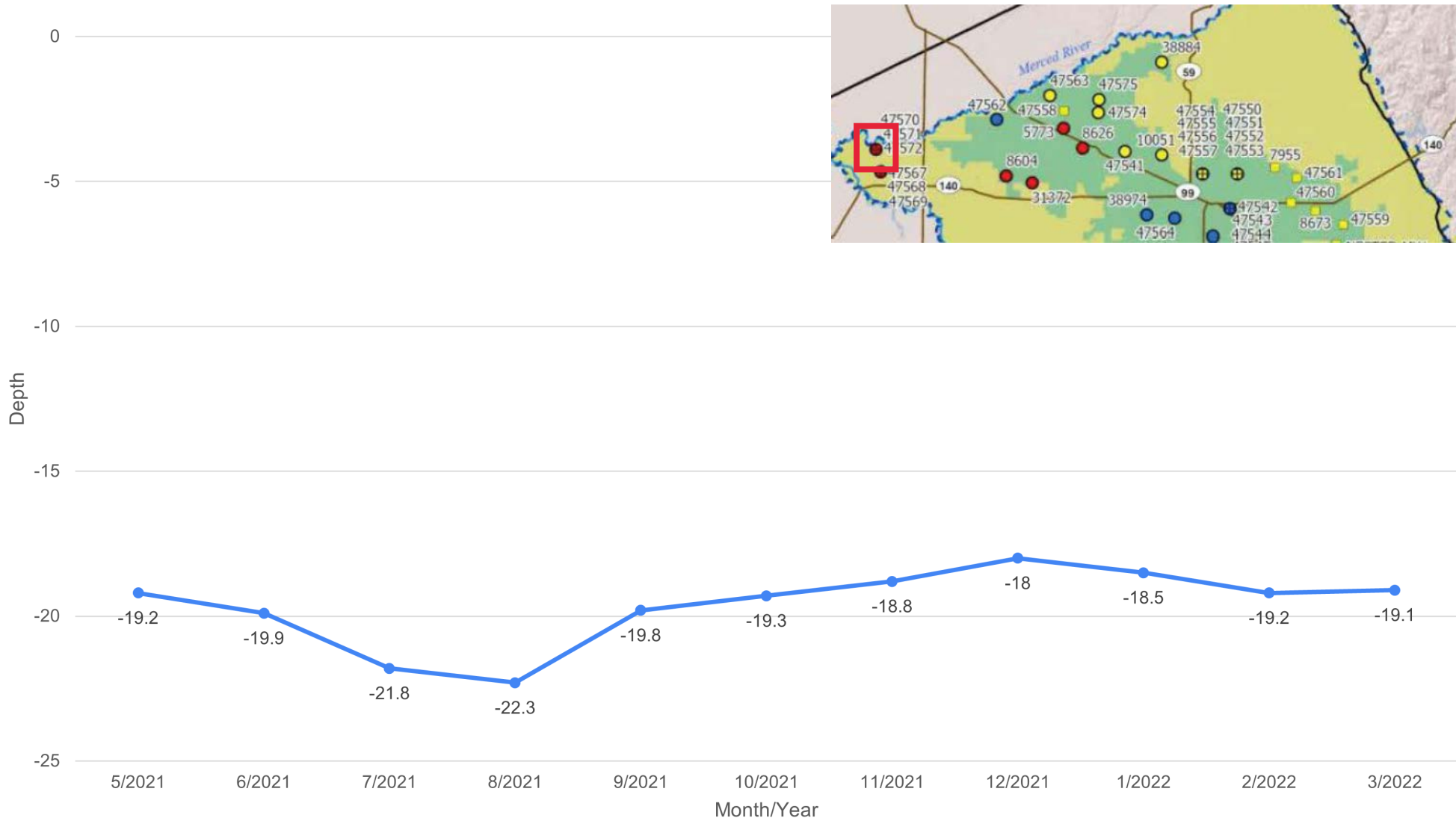
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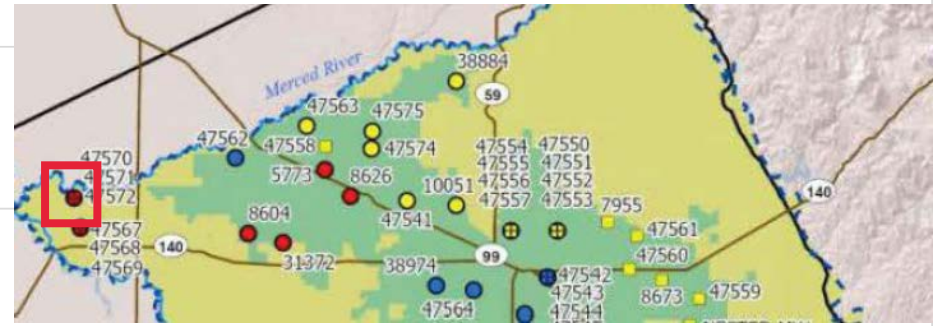
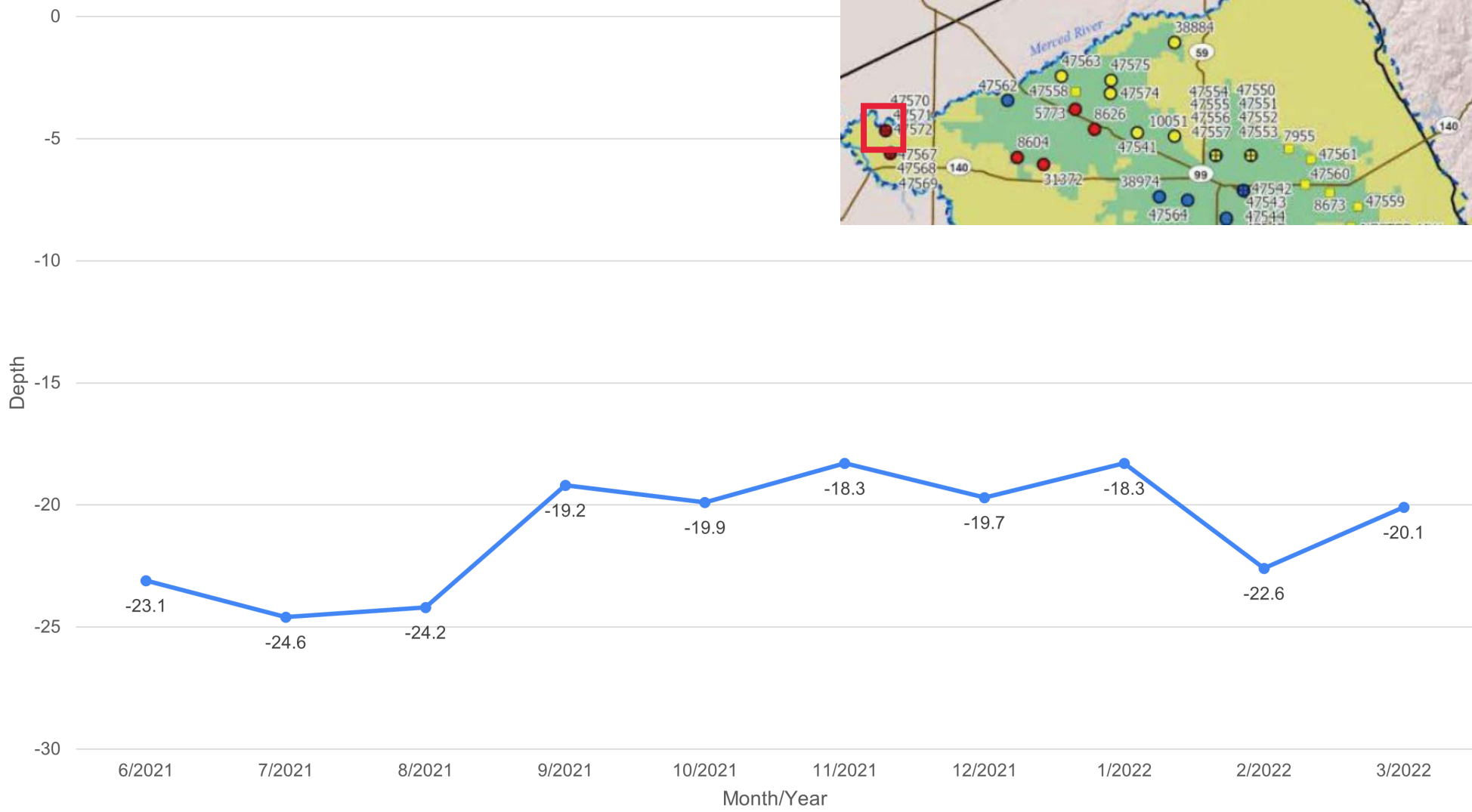
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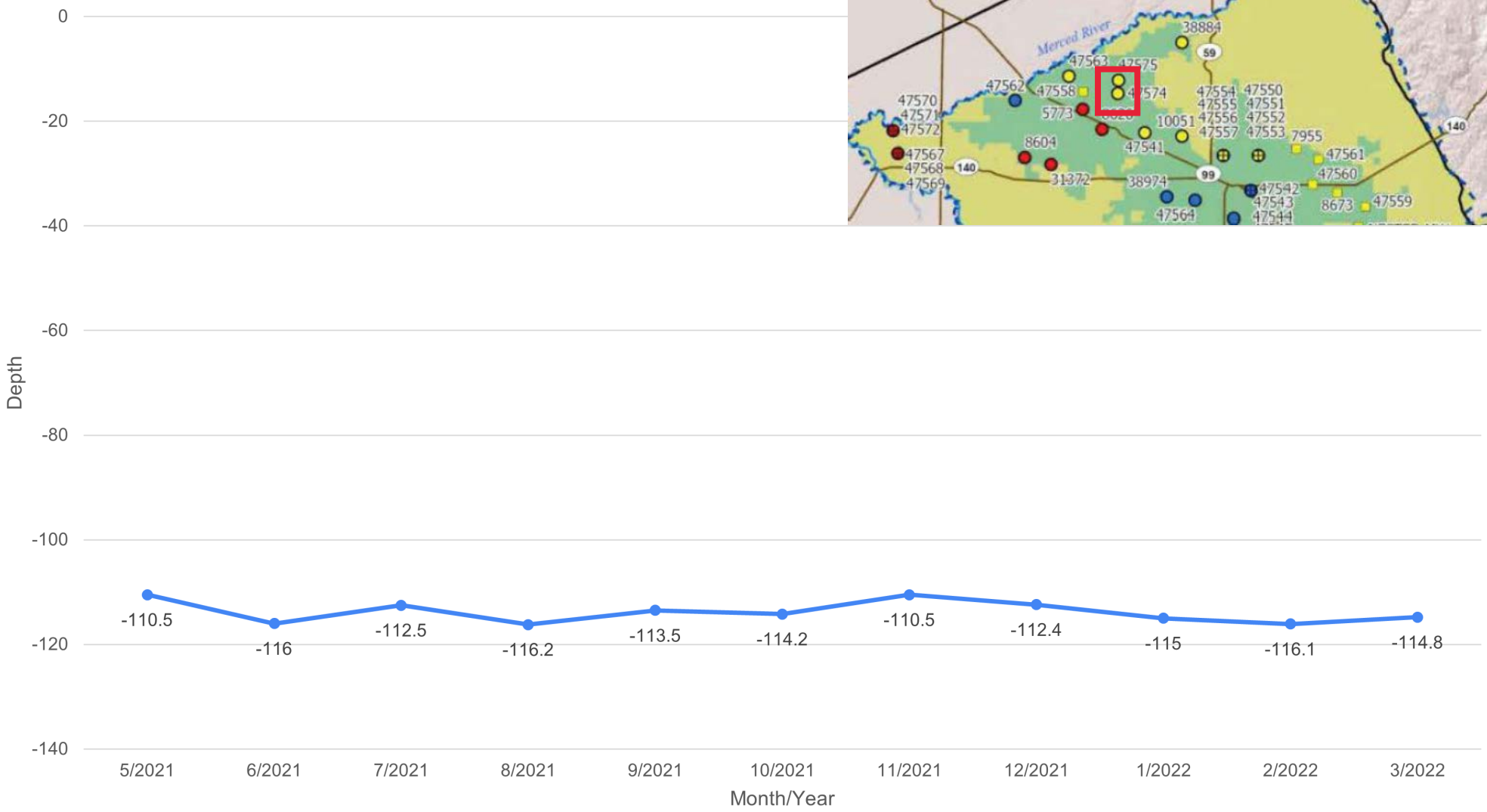
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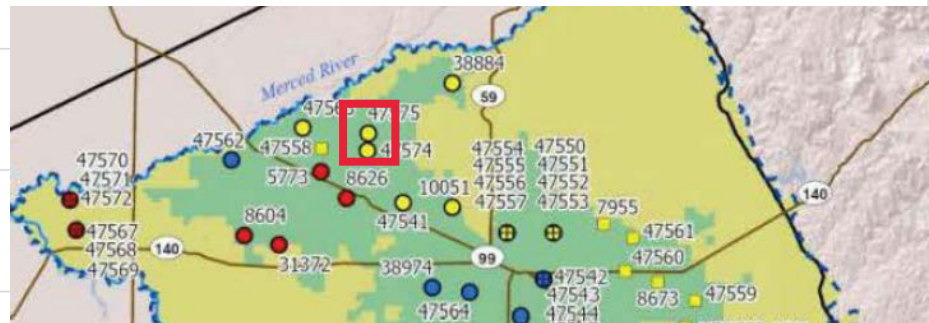
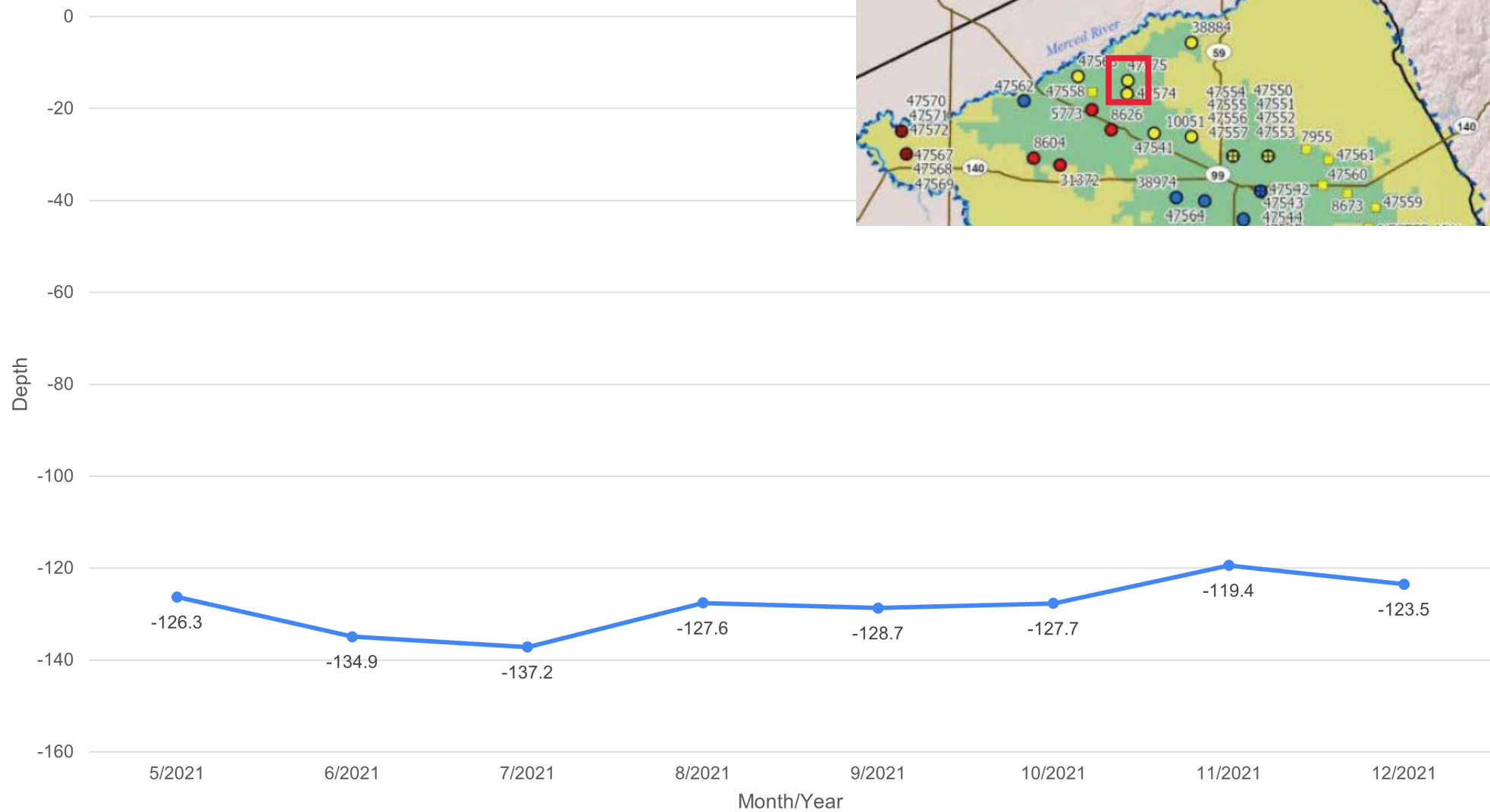
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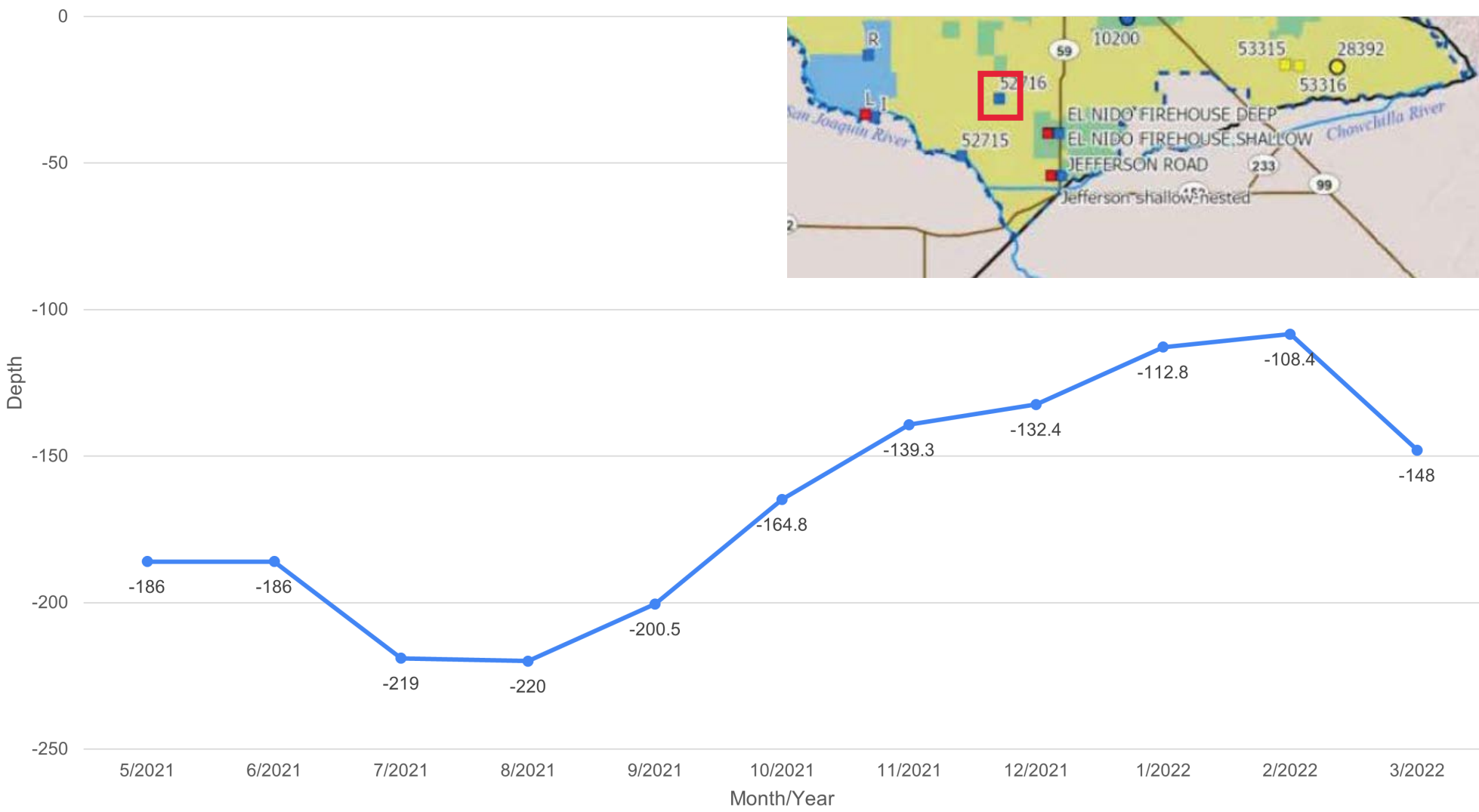
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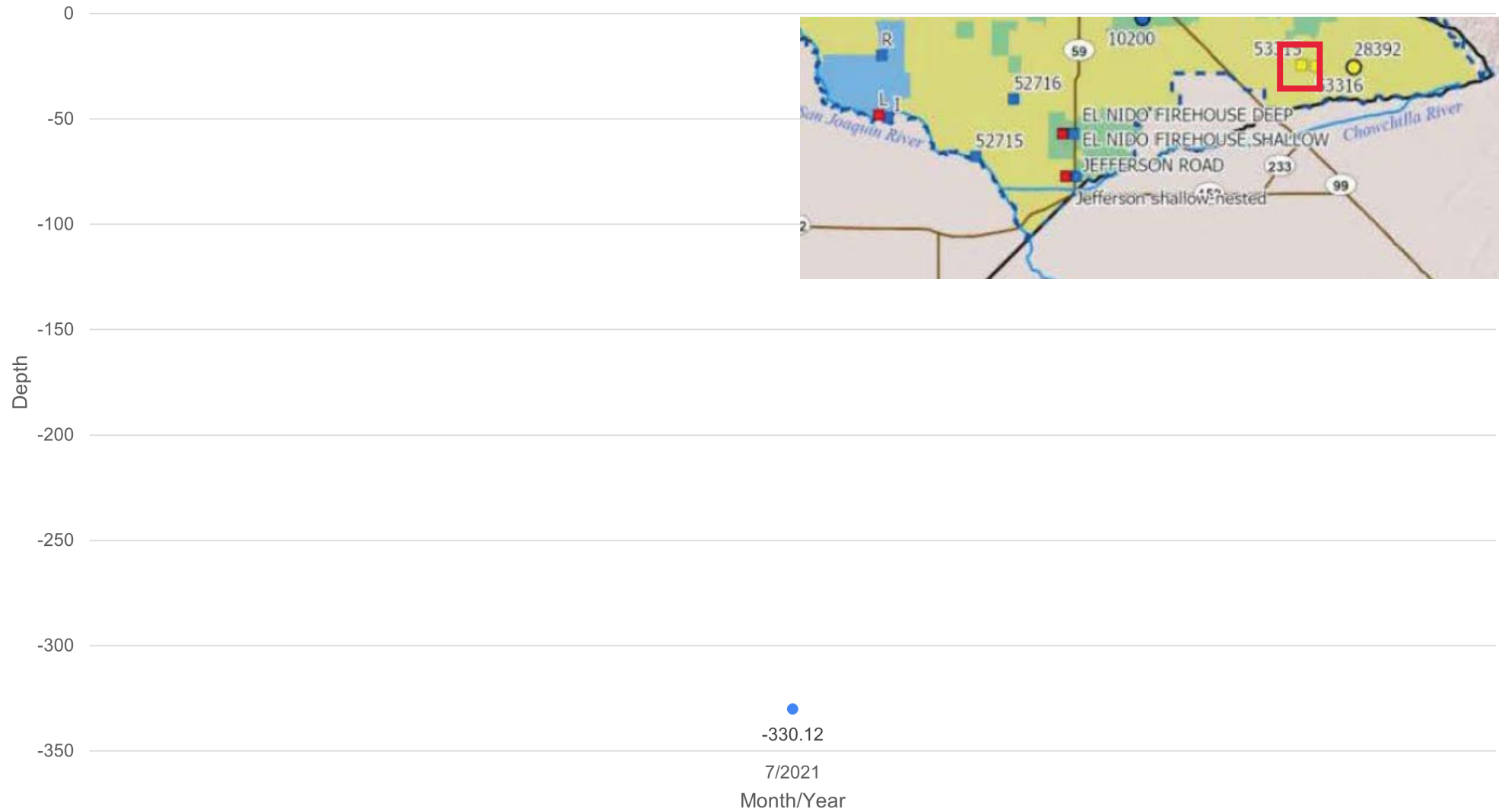
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